

# JVC

## SERVICE MANUAL

PORTABLE CD SYSTEM

**PC-X130 B/E/G/GI/EN**



### Area Suffix

B .....	U.K.
E .....	Continental Europe
G .....	Germany
GI .....	Italy
EN .....	Northern Europe

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# 1. Safety Precautions

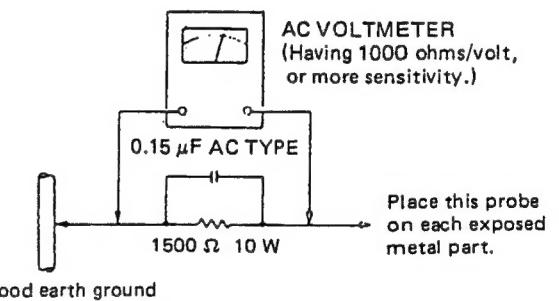
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by (  ) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a  $0.15 \mu F$  AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).



## Warning

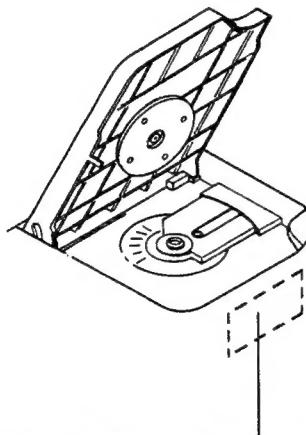
1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

## 2. Safety Precaution about PC - X130

### IMPORTANT FOR LASER PRODUCTS (PRECAUTION)

#### PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD door is open. It is dangerous to defeat the safety switches.
5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

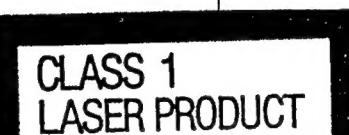
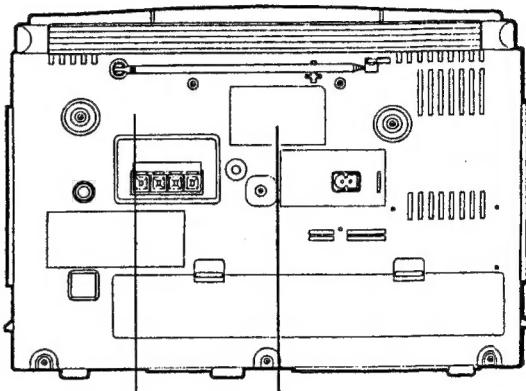


**ADVARSEL**-Der vil udstråles osynlig laserbestråling når apparatet åbnes og afslæsningsmekanismen frigøres.  
UNDGÅ AT BLIVE UDSET FOR LASERBESTRÅLING.

**DANGER**-Invisible laser radiation when open and interlock defeated.  
AVOID DIRECT EXPOSURE TO BEAM.

6. CAUTION: The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

#### IDENTIFICATION LABEL AND CERTIFICATION LABEL



Obs:  
Apparaten innehåller laser  
Komponent av höger laserklass  
än klass 1.

#### IMPORTANT (in the United Kingdom)

##### Mains Supply (AC 240 V~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

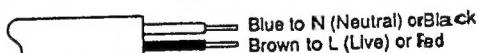
BE SURE to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

#### IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

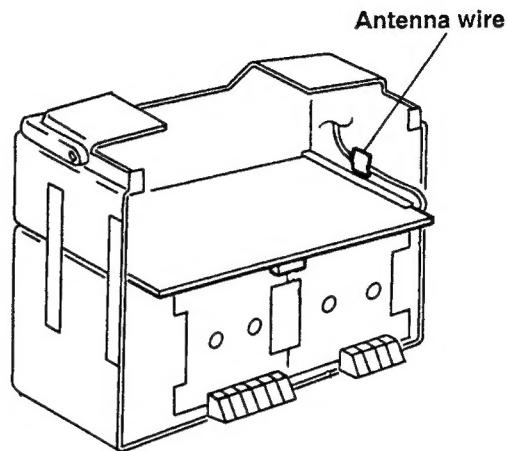
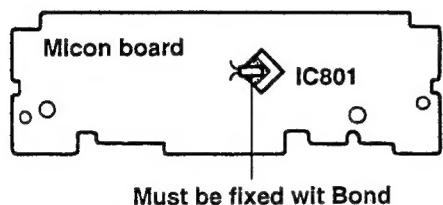
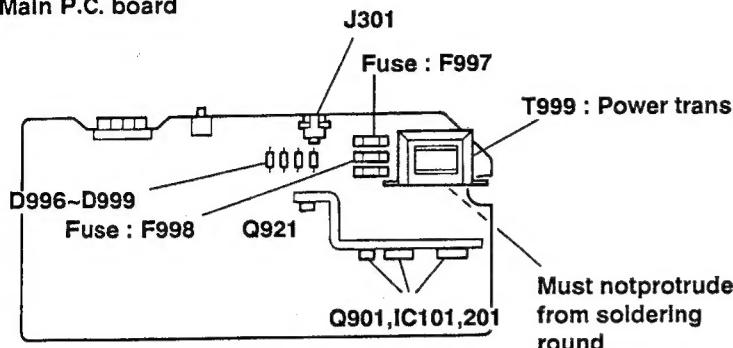


As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

**■ Main P.C. board****■ Important points for safety management**

1. Make sure of the marking "VTP57P2 - 12C (PC - X130 B/E/G/GI/EN)" on the power transformer as well as of fixing screws got tightened.
2. Make sure of the markings "SE - 1(PC - X130 E/G/GI/EN) or SE - 5 (PC - X130 B)" on the attachment plug of the power cord, "SE - 4 (PC - X130 E/G/GI/EN) or SE - 6 (PC - X130 B)" on its connector plug and " $\triangleleft$  VDE  $\triangleright$  (PC - X130 E/G/GI/EN) or BS6500 (PC - X130 B)" mark on the power cord itself besides confirmation of no damage in any part of the cord.
3. Make sure of the marking "HSC1466 (PC - X130 B/E/G/GI/EN)" on the AC jack and of no gap between the jack and the board to avoid break in the circuit pattern.
4. For securing creeping distance and space interval, make sure of no excess soldering and no parts sticking out around primary terminals and adjacent secondary terminals.
5. Make sure of secure fitting of the fuse besides rating, ampere — capacity and T mark shown on its base. Especially check the rating that is accordant with the specified rating indicated on the board.  
F997 : T5AL250V, F998 : T5AL250V
6. Make sure that all wires and the like are securely clamped or fixed not to near live parts, moving parts, heat generation parts and sharp — edged parts.
7. Make sure to arrange the following parts not to contact electrolytic capacitors and wires since they are heat generation parts. For inflammable parts, confirm that they don't topple down if they are lifted up. ( )must be controlled.  
IC201, IC101, Q921, Q901, (D996), (D997), (D998), (D999), RM07.

## Main Features

1. Multi-function CD player with remote control.
  - CD player with programmed play of up to 20 tunes/repeat play/random play/intro play function.
  - 8-cm (3-3/16") "CD singles" capability.
2. 32-key remote control unit (CD and tuner operations)
  - Remote control controls power on/off switching, volume control, SEA electronic equalizer controls, Active Hyper-Bass on/off switching.
3. Active Hyper-Bass circuit for low-frequency sound reproduction.
4. 2-Band digital synthesizer tuner with 30-station (15 FM and AM (MW/LW) preset capability
  - Seek/manual tuning
  - Auto preset tuning
  - Preset scan tuning
5. Synchro-record start for CD recording convenience.
6. Double-cassette mechanism (Deck A for recording and playback, Deck B for playback).
  - Metal and CrO<sub>2</sub> tapes can be played back for superior tone quality.
  - Synchro-start dubbing function (normal/high speed dubbing).
  - Relay playback (from Deck B to Deck A).
7. Timer/Clock function
  - Timer on/off with preset volume function.
  - Wake-up volume setting with 25 different levels.
  - Sleep timer can be set for up to 120 minutes.

## Specifications

### Compact disc player section

Type	: Compact disc player
Signal detection system	: Non-contact optical pickup (semiconductor laser)
Number of channels	: 2 channels (stereo)
Frequency response	: 20 Hz - 20,000 Hz
Signal-to-noise ratio	: 76 dB
Wow & flutter	: Less than measurable limit
<b>Radio Section</b>	
Frequency range	: FM 87.5 - 108 MHz (B/E/G/GI/EN) : MW 522 - 1,629 kHz (B/E/G/EN) : LW 144 - 288 kHz (B/E/G/EN)
Antennas	: Telescopic antenna for FM Ferrite core antenna for MW and LW

### Tape deck Section

Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor for capstan
Heads	: Deck A; Hard permalloy head for recording/playback, 2 gap permalloy head for erasure Deck B; Hard permalloy head for playback
Frequency response	: 63 - 12,500 Hz (with normal tape/normal speed)
Wow & flutter	: 0.15% (WRMS)
Fast wind time	: Approx. 120 sec. (C-60 cassette)

### General

Power output	: Max. 20 W (10 W + 10 W) at 8 Ω
Output terminals	: PHONES x 1 (Output level: 0 - 12 mW/32 Ω, Matching impedance: 16 Ω - 1 kΩ)

Power supply	: AC 240 V, 50/60 Hz (PC-X130B) AC 230 V, 50/60 Hz (PC-X130E/G/EN/GI) DC 12 V ("D" cells × 8) Ext. DC 12 V (PC-X130E/EN)
Power consumption	: 35 W (with POWER SW ON) 2.6 W (with POWER SW STANDBY)
Dimensions	: 700(W) × 250(H) × 23(D) mm (27-5/8" × 9-7/8" × 9-1/8") including knobs
Weight	: Approx. 8.4 kg (18.6 lbs) with batteries Approx. 7.5 kg (16.6 lbs) without batteries
Accessories provided	: AC power cord Remote control unit (RM-RX130) Battery "AAA" x 2 (for the remote control)

### Speaker Section (each unit)

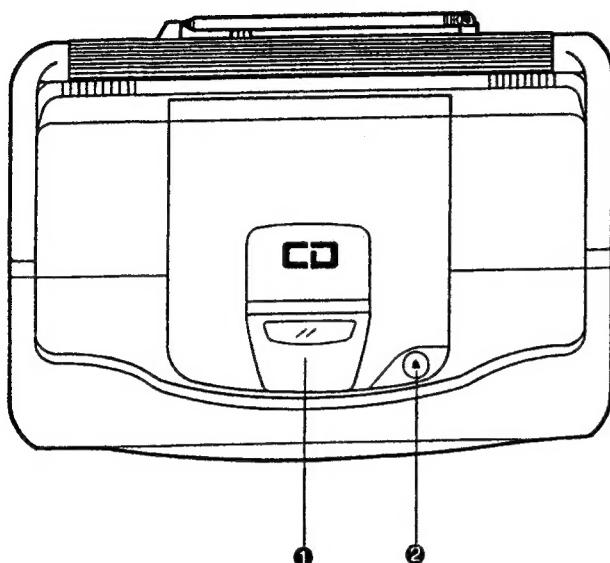
Speakers	: 10 cm (3-15/16") × 1
Impedance	: 8 Ω
Dimensions	: 180 (W) × 237 (H) 20 (D) mm (7-1/8" × 9-3/8" × 7-1/16")
Weight	: Approx. 1.6 kg (3.6 lbs)

Design and specifications are subject to change without notice.

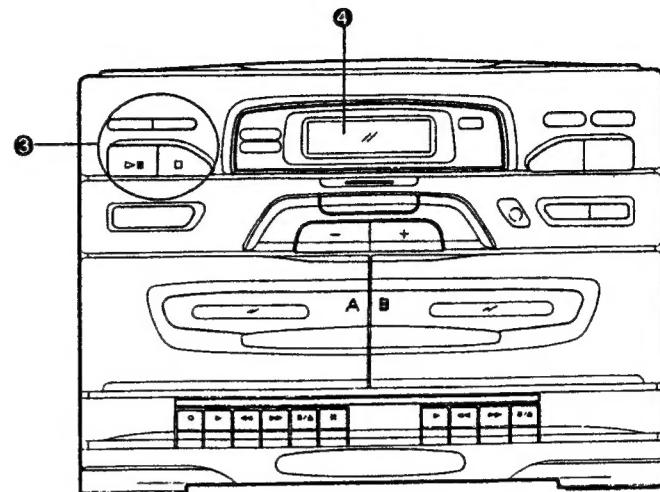
## Instructions ( Extract )

### NAMES OF PARTS AND THEIR FUNCTIONS

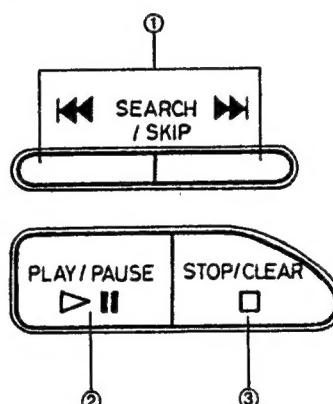
- Top panel



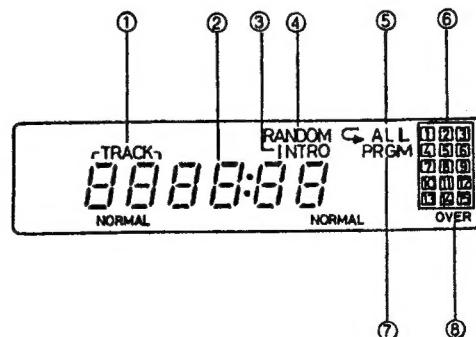
- Front panel



③



④



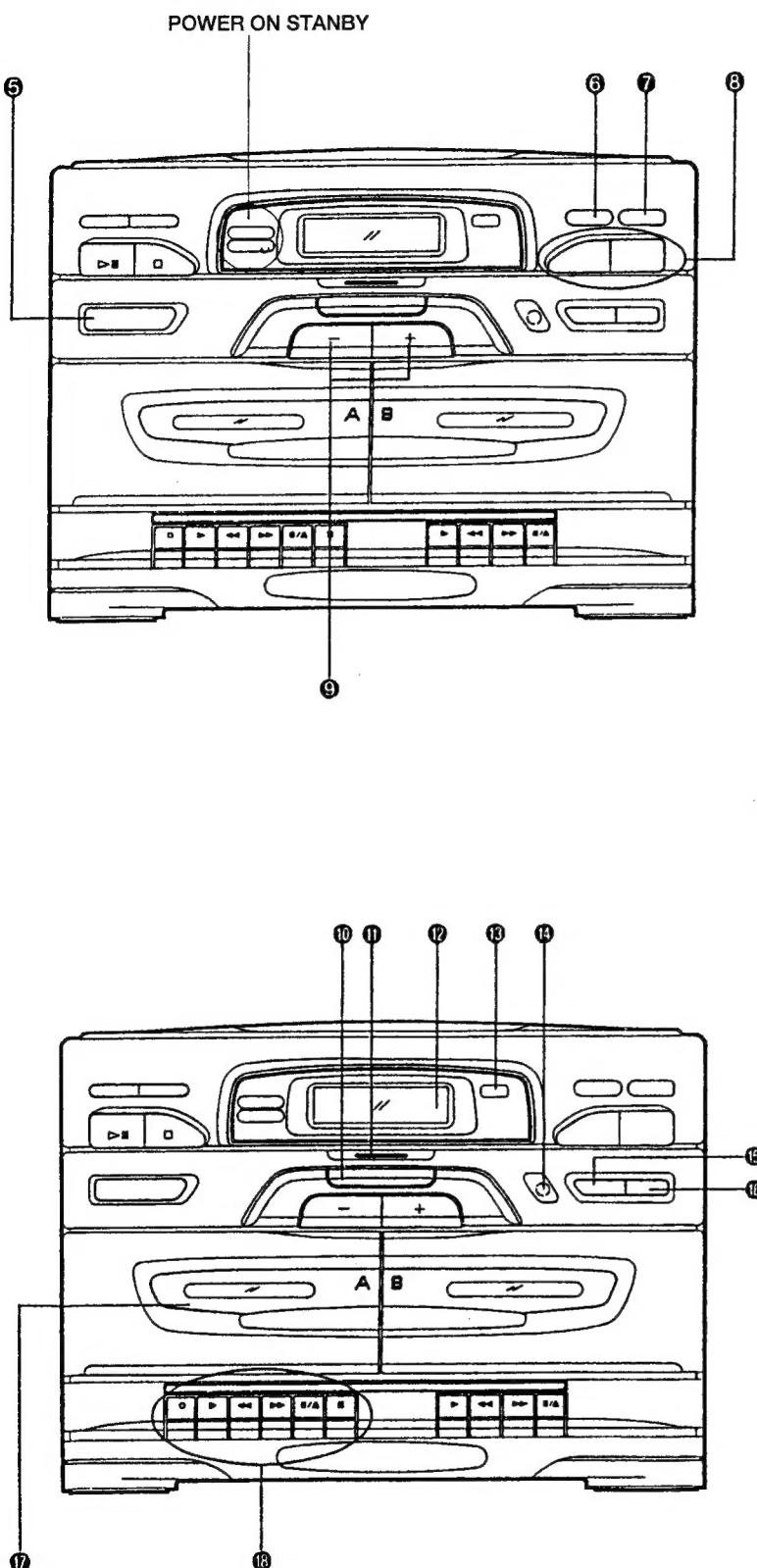
- ① Disc holder  
② Disc holder open button (▲)

③ CD operation buttons

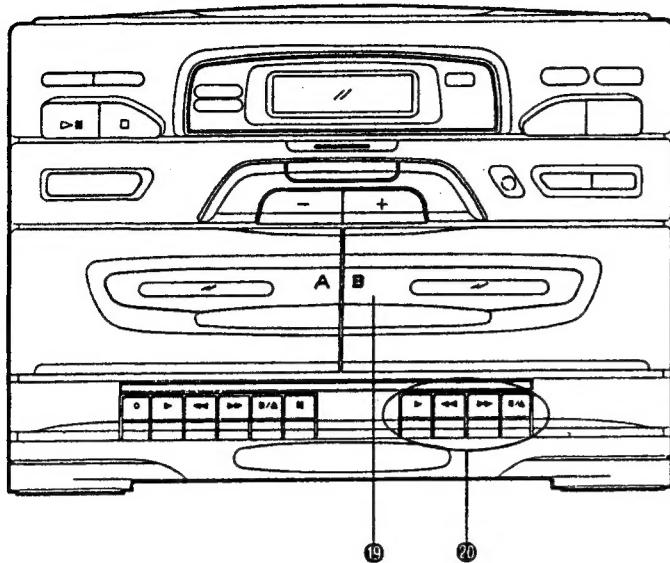
- ① SEARCH/SKIP (◀◀/▶▶) buttons  
② PLAY/PAUSE (▷ II) button  
③ STOP/CLEAR (□) button

④ Display window (CD player section)

- ① Function/Track number display  
② Playback time display  
③ INTRO scan Indicator  
④ RANDOM playback indicator  
⑤ Repeat playback indicator ( = ALL)  
⑥ Music calendar display  
⑦ PRGM mode indicator  
⑧ OVER indicator

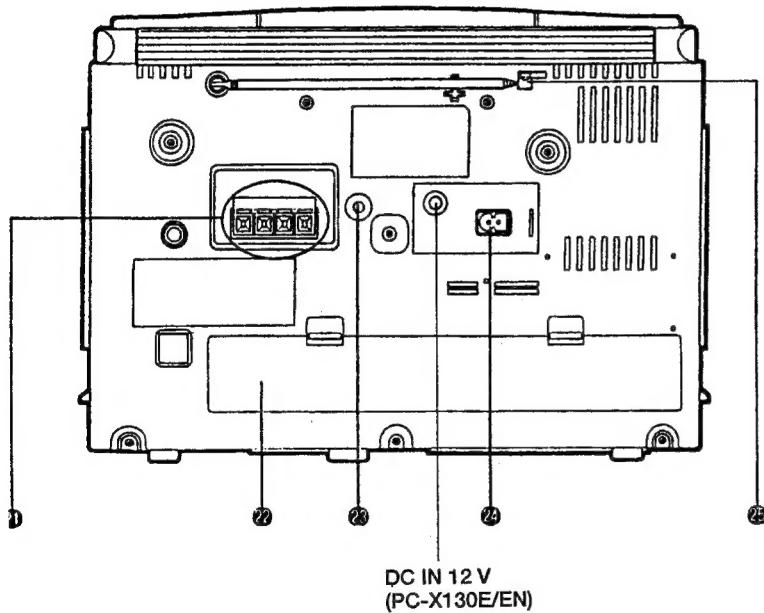


- ⑤ POWER ON STANBY
- ⑥ PRESET SCAN button
- ⑦ AUTO PRESET button
- ⑧ TUNER (BAND/FM MODE) button
- ⑨ Tuning (Time adjustment) buttons  
DOWN frequency/Hour or minute  
UP frequency/Hour or minute
- ⑩ VOLUME buttons  
+: Use to increase the volume or tone (SEA).  
-: Use to decrease the volume or tone (SEA).  
(The level can be changed from VOL 0 to VOL 25.)
- ⑪ ACTIVE HYPER-BASS button  
on: The ACTIVE HYPER-BASS indicator will light.  
Set to this position to listen to the ACTIVE HYPER-BASS sound  
off: The ACTIVE HYPER-BASS indicator goes out.  
Set to this position when the ACTIVE HYPER-BASS sound is not required.
- ⑫ ACTIVE HYPER-BASS indicator  
• Blanks when the VOLUME button is operated.
- ⑬ Display window  
(Tuner section)  
Band indicator (FM/AM) (MW/LW)  
Radio frequency display  
MONO indicator  
STEREO indicator  
Preset station display  
(Tape deck/amplifier section)
- Tape mode display  
NORMAL tape Indicator  
CrO<sub>2</sub>/METAL tape indicator  
NORMAL speed indicator  
HIGH speed indicator  
Recording indicator (REC)  
(Timer/Clock section)  
(See page 44)
- ⑭ REMOTE SENSOR section
- ⑮ SEA ELECTRONIC EQ (FREQUENCY) button  
Used to select the electronic equalizer frequency band (100 Hz/1 kHz/10 kHz) to be adjusted with the VOLUME button. (The level setting ranges are from -5 to 5.)
- ⑯ TAPE (FOR PLAYBACK) switch  
Set this switch according to the type of tape to be used.  
CrO<sub>2</sub>/METAL: (playback only)  
Set to this position to listen to a metal (type IV) or chrome (type II) tape.  
NORMAL:  
Set to this position to listen to a normal (type I) tape.
- ⑰ DUBBING SPEED switch  
HIGH:  
Set to this position when dubbing at high-speed.  
NORMAL:  
Set to this position when dubbing at normal-speed.
- ⑱ Cassette holder (Deck A)
- ⑲ Cassette operation buttons (Deck A)  
○ REC:  
Press this button with the ▶ PLAY button to start recording.  
▶ PLAY:  
Press to play the tape.  
◀ REW:  
Press to rewind the tape rapidly.  
▶ FF:  
Press to wind the tape forward rapidly.  
■/▲ STOP/EJECT:  
Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.  
II PAUSE:  
Press to stop the tape momentarily. Press again to release the pause mode.



- ⑯ **Cassette holder (Deck B)**  
 ⑰ **Cassette operation buttons (Deck B)**
- ▶ **PLAY:**  
Press to play the tape.
  - ◀◀ **REW:**  
Press to rewind the tape rapidly.
  - ▶▶ **FF:**  
Press to wind the tape forward rapidly.
  - /▲ **STOP/EJECT:**  
Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.

• **Rear panel**



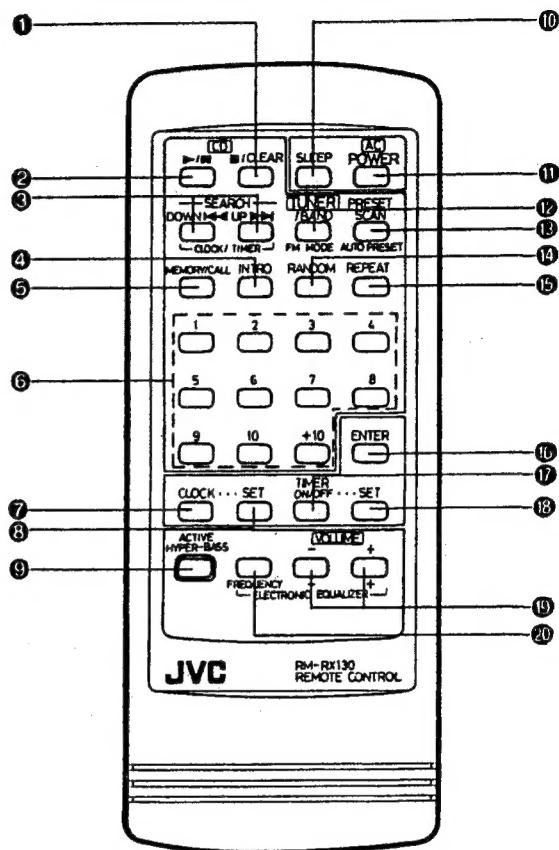
- ① **SPEAKER terminals**  
Connect the provided speakers to these terminals.
- ② **Battery compartment cover**
- ③ **Headphones jack (PHONES) (3.5 mm dia. stereo mini)**  
Connect headphones (impedance 16 Ω - 1 kΩ) to this jack. The speakers are automatically switched off when the headphones are connected.
- ④ **AC IN (AC Input) jack**
- ⑤ **Telescopic antenna**

## REMOTE CONTROL UNIT

The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.

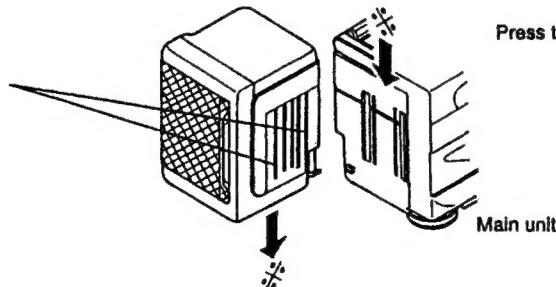
- ① ■/CLEAR: Stop/clear button
- ② CD ▶/II: CD mode/play/pause button
- ③ CD search/DOWN and UP buttons (◀◀, ▶▶)
  - In the CD mode, to scan to the beginning of a tune and to start forward or reverse search.
  - In the tuner mode, to tune to broadcasts. (Also used to set the time and timer.)
- ④ INTRO button
- ⑤ MEMORY/CALL button
- ⑥ Track (tune) number buttons (No. 1 – No. 10, +10)  
Preset station buttons (No. 1 – No. 10, +10)
- ⑦ CLOCK button
- ⑧ CLOCK SET button
- ⑨ ACTIVE HYPER-BASS button
- ⑩ SLEEP button
- ⑪ POWER (AC) button
  - When power is supplied from the batteries, even when the button is pressed, the PC-X130 will not be switched on.
- ⑫ TUNER/BAND button
- FM MODE button
- ⑯ PRESET SCAN button
- AUTO PRESET button
- ⑭ RANDOM button
- ⑮ REPEAT button
- ⑯ ENTER button
- ⑰ TIMER ON/OFF button
- ⑱ TIMER SET button
- ⑲ VOLUME buttons
  - +: Use to increase the volume or tone (SEA).
  - : Use to decrease the volume or tone (SEA).
- ⑳ FREQUENCY (ELECTRONIC EQUALIZER) button



## ATTACHING/DETACHING THE SPEAKERS

**When using the speakers attached to the main unit**  
Hold with the bottom of the speaker against the top of the main unit and press down on the speaker to attach it.

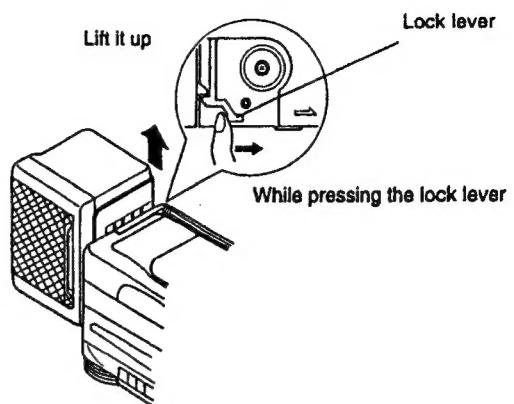
Speaker slot



Press the speaker down with the speaker and main unit aligned.

**When using the speakers detached from the main unit**

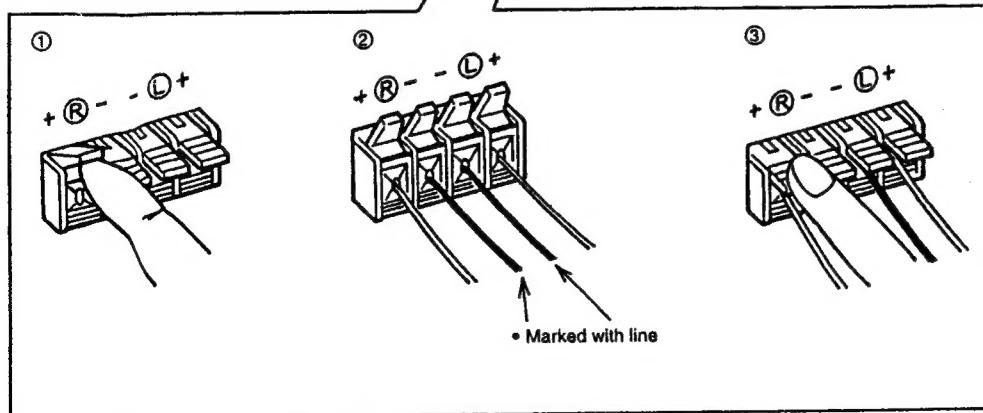
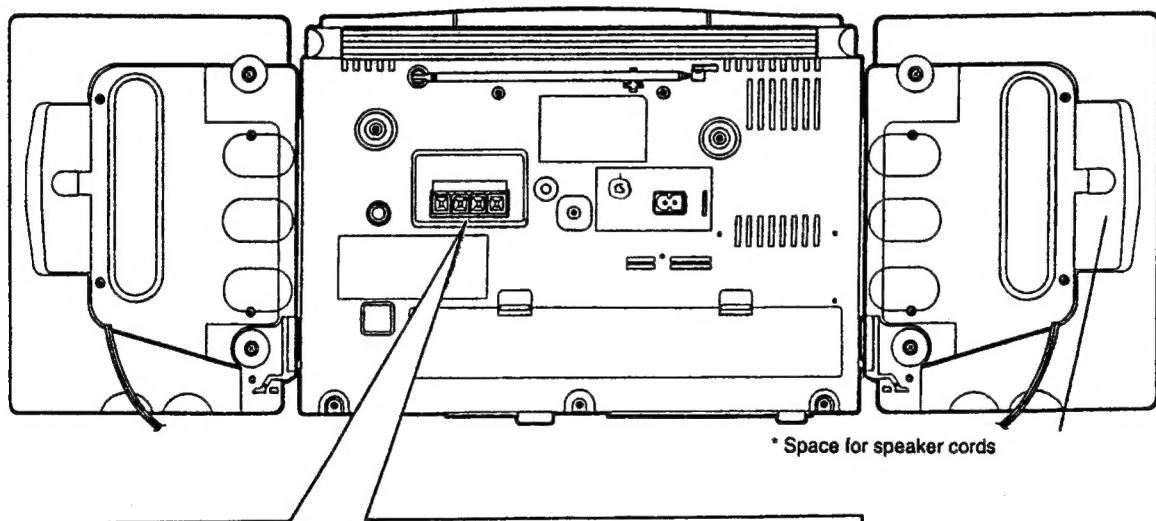
Lift the speaker up to detach from the main unit by pressing the lock lever at the rear bottom of speaker in the direction of the arrow.

**Note:**

Since the speakers sound differently according to where they are placed, carefully place them for optimal effect within the length of the provided speaker cords. It is recommended that the left and right speakers be placed symmetrically in relation to the main unit.

**CONNECTIONS**

- Do not switch the power on until all the connections are completed.
- After connecting the speaker cords, bundle any slack into the space for the speaker cords in the rear panel.
- When connecting the speaker cords, connect the one marked with a line to the “-” terminal first.

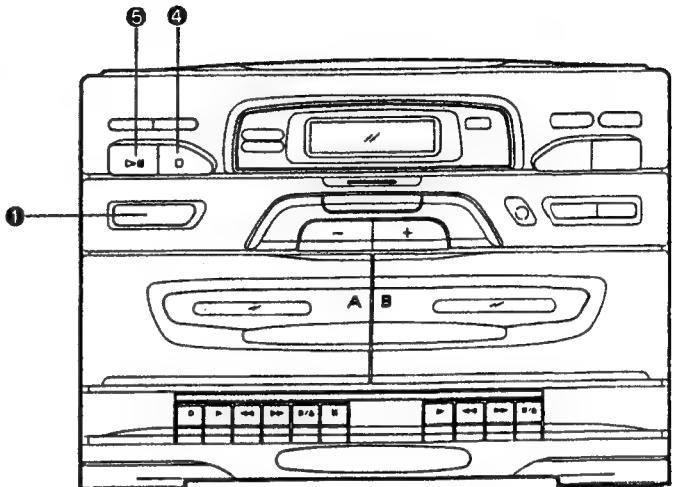
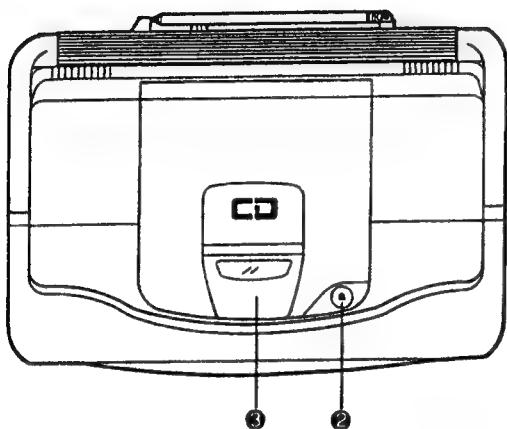


## PLAYING COMPACT DISCS



**Playing an entire disc ...** The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

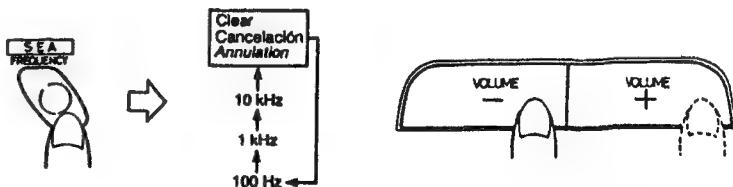
Operate in the order shown



- ① Set the POWER button to on.
- ② Press to open the Disc holder.
- ③ Load a disc with the label side facing up and close the Disc holder.
- ④ Set to the CD mode.
  - If the PLAY button of deck A or B is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
  - When a CD is first loaded, the total number of tracks (tunes) and total playing time are displayed.
- ⑤ Press to start play.
  - As tunes are played, their track numbers go out one by one.
- 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

### To adjust the SEA (FREQUENCY) electronic equalizer

Press the SEA (FREQUENCY) button to select the graphic equalizer frequency band (100 Hz/1 kHz/10 kHz) to be adjusted. Within about 5 seconds, press the VOLUME button (+/-) to adjust the level within a range of -5 to 5. (Level should be adjusted in each frequency band.)



### To stop play

- **To stop in the middle of a disc**  
During playback, press the STOP/CLEAR (□) button to stop play.



- To stop a disc temporarily**  
Press the PLAY/PAUSE (▶II) button to stop play temporarily. When pressed again, play resumes from the point where it was paused.

**Caution:**

- To change discs, press the STOP/CLEAR (□) button; check that the disc has stopped rotating completely before unloading it.

**Notes:**

- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.  
In such a case, check the disc and insert again after cleaning the disc or turning it over.



Keep pressing for fast-reverse search

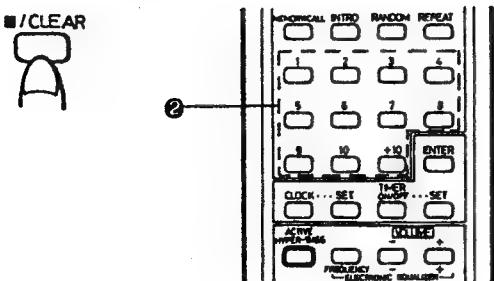


- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

**Direct access playback (using the remote control)**

- Pressing any of the track number buttons will start playing from the beginning of the designated tune, without your having to press the CD ▶II button. (This function cannot be used during programmed play.)

①



- Press the ■/CLEAR button to set to the CD mode.
  - If the PLAY button of the deck A or B is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
- Designate the required tune using the track number buttons.
  - To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
  - To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button. (Example: To designate the 25th tune, press the +10 button twice, then press track number button 5.)

+10 button:  
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.
- To skip to another tune during play**  
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

### Programmed play (using the remote control)

- Up to 20 tunes can be programmed to be played in any required order.  
The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).  
(Example: When programming the 2nd tune to be played first, the 6th tune next, and then the 12th tune, etc.)

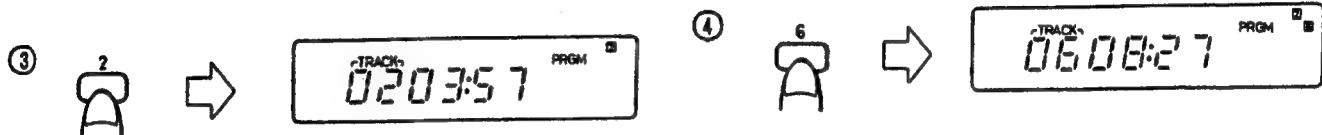
- Press the ■/CLEAR button.
- Press the MEMORY button to set to the programming mode.
- Press to designate the required track number.
- Designate the remaining tunes by pressing the track number buttons.
- Press the ▶/II button when programming is completed. Programmed playback starts.

#### To clear the programmed tunes ...

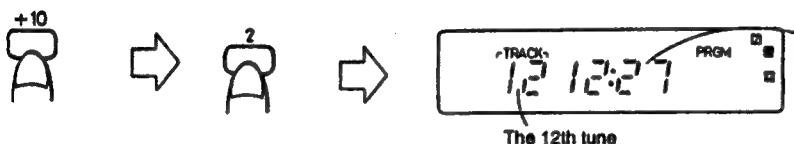
Press the ■/CLEAR button before playing a disc. During programmed playback, press this button twice. When the Disc holder is opened, programmed tunes are cleared automatically.



To designate the 2nd tune.



To designate the 12th tune.



The total playback time of programmed tunes is displayed.

To confirm the details of a program ...  
Press the MEMORY/CALL button; the tunes making up the program will be displayed in programmed order.



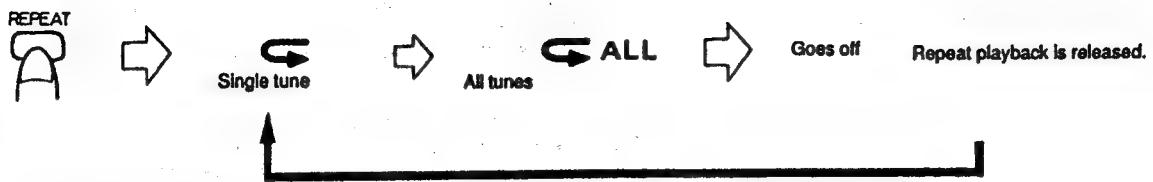
#### Notes:

- If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
- It is not possible to program more than 20 tunes.
- When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
- When performing timer playback in the order of "Programmed play", step ⑤ above is not required.

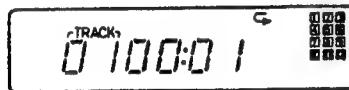
**Repeat play (using the remote control)**

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune ( $\sqsubset$ ), to all the tunes ( $\sqsubset$  ALL), to the clear mode, in this order.



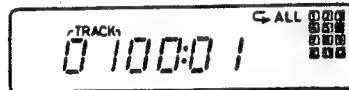
- Repeat playback of a single tune ( $\sqsubset$ )  
The tune being played back will be heard repeatedly.

**CASSETTE PLAYBACK**

(The example shows Deck A)

Operate in the order shown

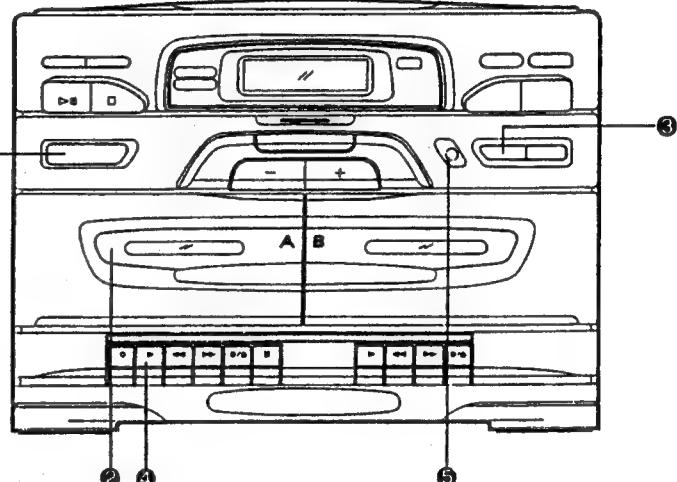
- Repeat playback of all tunes ( $\sqsubset$  ALL)  
When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.

**Random playback (using the remote control)**

Press the RANDOM button, all tunes on a disc are played once, in random order.

**INTRO scan operation (using the remote control)**

- Simply press the INTRO scan button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- If the INTRO scan button is pressed in the middle of a tune, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO scan button again and normal playback (or programmed playback) will resume.



- ① Set the POWER button to on.
- ② Load a cassette.
- ③ Set the TAPE switch as required.
- ④ Press to start playback.
- ⑤ Adjust.

## • Playback In Deck B

The previous procedures ③ through ④ also apply to Deck B when a cassette is loaded in Deck B. When Decks A and B are simultaneously set to the play mode, only the playback sound of Deck B is heard.

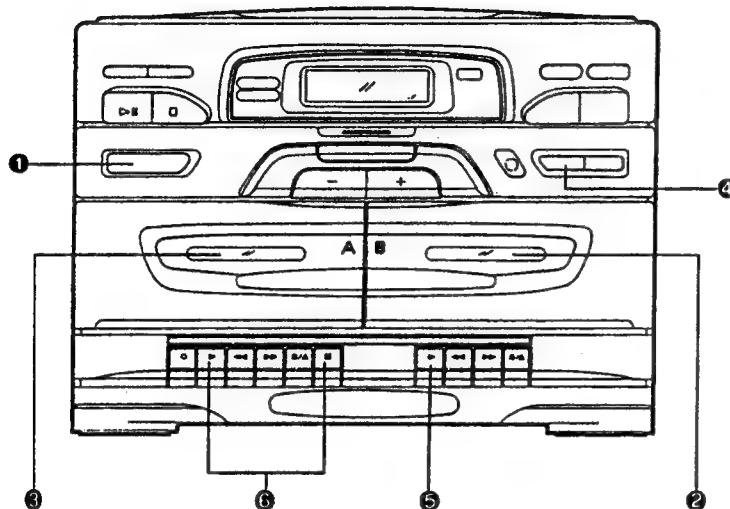
**Notes:**

1. When the power is turned off while the tape is still running, cassette operation buttons which are depressed do not return to the original positions.  
Press the STOP/EJECT (■/▲) button to stop the tape running before turning off the power.
2. Avoid operating the FF or REW button on the deck during playback of the other deck.

**RELAY PLAYBACK**

(From Deck B to Deck A)

Operate in the order shown



- ① Set the POWER button to on.
- ② Load a cassette.
- ③ Load a cassette.
- ④ Set the TAPE switch as required.
- ⑤ Press the ▶ PLAY button on Deck B.
- ⑥ Set Deck A to the play-pause mode.

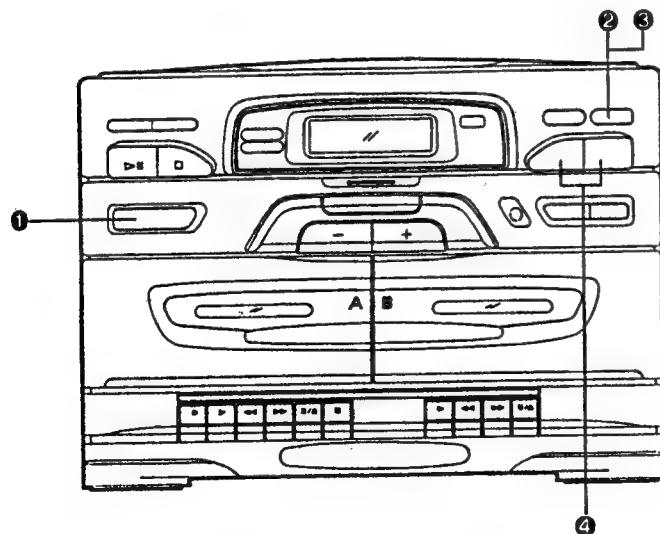
When Deck B stops, Deck A's pause mode will be released and it will start playback. When Deck A stops automatically, relay playback will be released.

**Note:**

Use the same type of tape in Decks A and B during this mode.

**RADIO RECEPTION**

Operate in the order shown

**FM MODE button****Auto mode:**

Set to this position when listening to or recording an FM stereo broadcast. The STEREO Indicator lights when a FM stereo broadcast is received.

**MONO:**

Set to this position when FM stereo reception is noisy. When another station is tuned to in the MONO mode using the TUNING UP/DOWN or PRESET SCAN/AUTO PRESET button, the unit automatically enters Auto mode.

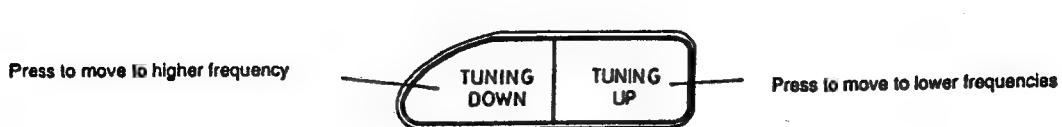
**• Seek tuning**

Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

- ① Set the POWER button to on.
- ② Press the TUNER/BAND button; a band and radio frequency will be shown in the display.
  - If the PLAY button of the deck is pressed, press the STOP/EJECT (■/△) to set to the stop mode.
- ③ Select the band/FM mode (FM auto, FM MONO or AM) (MW/LW).
- ④ Tune to the required station.

- **Manual tuning**

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 100 kHz for FM and 10 kHz for AM (MW/LW).



**Notes:**

- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

**Auto preset tuning**

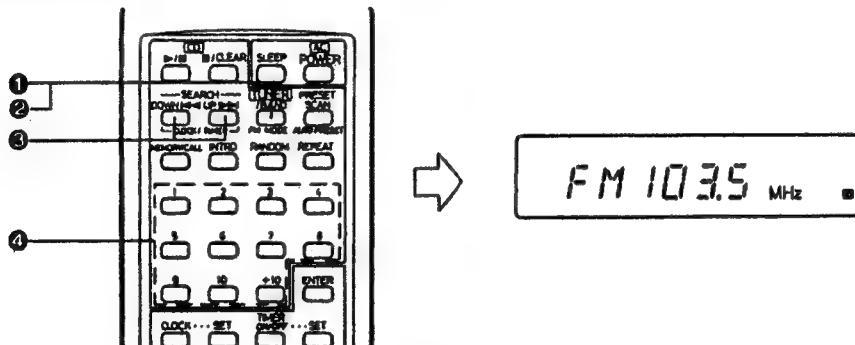
This function scans the current band (FM or AM (MW/LW)), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

- Press the AUTO PRESET button for more than 2 seconds. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency. (15 stations in each band (FM and AM (MW/LW)).

**Presetting stations (using the remote control unit)**

15 stations in each band (FM and AM (MW/LW)) can be preset as follows:

- ▷ Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



- ① Press the TUNER/BAND button.
- ② Select the FM band using the TUNER/BAND button.
- ③ Tune to the required station.
- ④ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)
- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the AM (MW/LW) band.
- **To change preset stations**  
Perform step ④ above after tuning to the required station.

**Notes:**

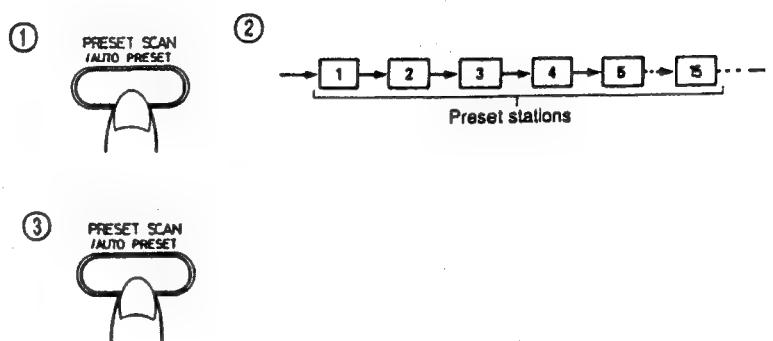
- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM broadcast, noise may be heard if the remote control is used.

### Preset tuning (using the remote control unit)

- The stations must be preset before this operation can be performed.
- ① Press the TUNER/BAND button.
- ② Select the band (FM or AM (MW/LW)) using the TUNER/BAND button.
- ③ Press the required preset station buttons (No. 1 – No. 10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

### Preset scan button tuning

- This makes it possible to automatically scan preset FM and AM stations.



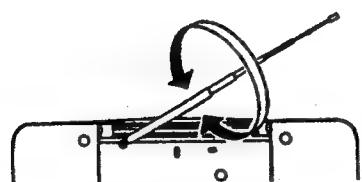
- Press the PRESET SCAN button.
- Scanning is performed in the order of preset station in each frequency band (FM and AM (MW/LW)). Each preset station is heard for approx. 5 seconds.
- When the required station is heard and its frequency is blinking, press the PRESET SCAN button again.

**Note:**

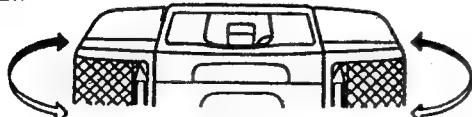
Up to 15 broadcast stations in each band can be preset on the PC-X130. If the preset scan operation is performed without all 15 stations having been preset, noise may be heard under certain conditions when non-preset stations are scanned.

### Using the antennas

FM



MW or LW



**Note:**

The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM (MW/LW) reception.

### RECORDING



- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

**Notes:**

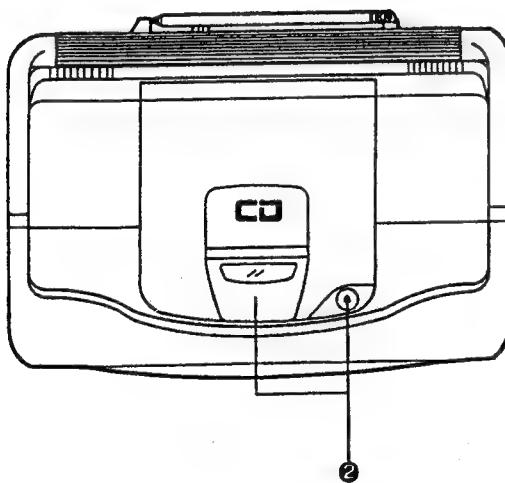
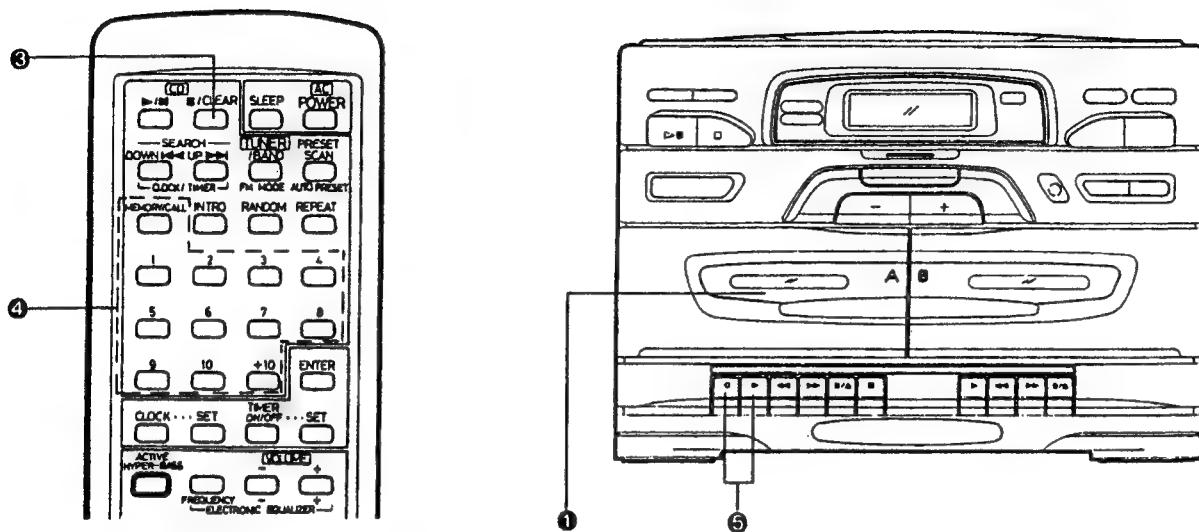
- The recording characteristics of this unit are those of normal tape. Normal tape has different characteristics from CrO<sub>2</sub> and metal tapes.
- Do not operate any button on deck B during recording.

It should be noted that it may be unlawful to record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

### Synchronized recording with the CD player

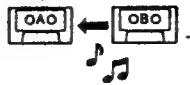
- In this system, the CD player starts playback when Deck A enters the recording mode.

Operate in the order shown



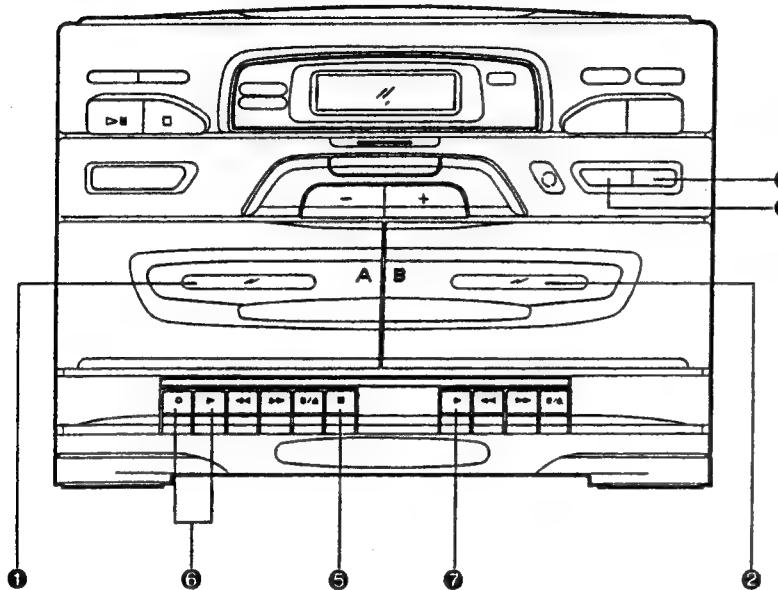
- ① Load a cassette tape in deck A
- ② Load a disc and close the Disc holder.
- ③ Set the CD mode.
  - When the ▶ PLAY button of deck is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode and perform this operation.
- ④ When programmed playback is required, program the required tunes using the remote control. (See page 27.)
  - Select tunes with a total playing time which does not exceed the tape length.
- ⑤ Press the ○ REC button with the ▶ PLAY button; synchronized recording will start.

- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the ■/▲ STOP/EJECT button to stop the tape.
- When automatic spacing between tunes is not required ...
  - Perform the following after finishing the previous operation (① to ④).
    - ① Press the ▶/II PLAY/PAUSE button of the CD player twice. The CD player enters the pause mode.
    - ② Press the ○ REC and ▶ PLAY buttons simultaneously. Now, the CD player starts playback simultaneously.

**DUBBING (SYNCHRO START DUBBING)**

Normal and high-speed dubbing can be done from Deck B to Deck A.

Operate in the order shown



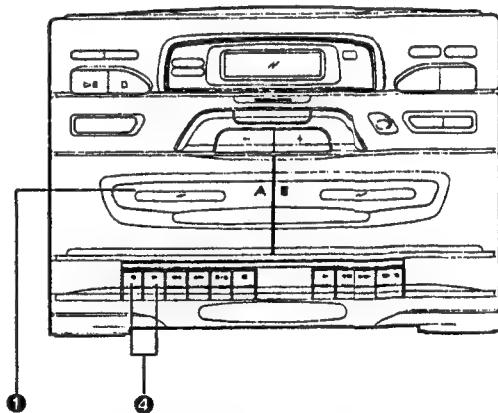
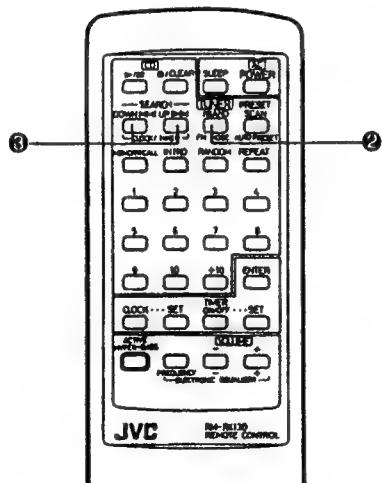
- ① Load a cassette tape in deck A. (Refer to the note (page 38.)
- ② Load a pre-recorded cassette tape in deck B.
  - Slightly press the ▶ PLAY button to set to TAPE mode. (The button should not be locked.)
- ③ Set to NORMAL SPEED or HIGH SPEED.
- ④ Set to correspond to the type of tape in Deck B.
- ⑤ Press the II PAUSE button.
- ⑥ Press the O REC button with the ▶ PLAY button (Record-pause mode.)
- ⑦ Press the ▶ PLAY button. (Synchronized dubbing w/ start.)

**Notes:**

1. Television receivers placed close to this unit may cause interference on the recorded signal when this unit is used in the high-speed dubbing mode. If this happens, either turn off the television receiver or use the normal speed dubbing mode.
2. With Deck A in the record-pause mode, the II PAUSE button is released when Deck B enters the stop mode.

**Recording from the radio**

Operate in the order shown

**Erasing**

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

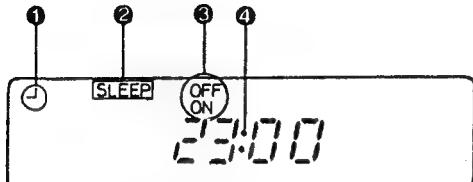
To erase a tape without making a new recording ... Slightly press the ▶ PLAY button of the deck to set to the TAPE mode and press the O REC and ▶ PLAY buttons together after pressing the stop button.

- ① Load a cassette. (Deck A)
  - ② Press the TUNER/BAND button.
  - ③ Tune to the required station.
  - ④ Press the O REC button with the ▶ PLAY button.
- To stop recording temporarily, press the II PAUSE button. To resume recording, press the II PAUSE button again.

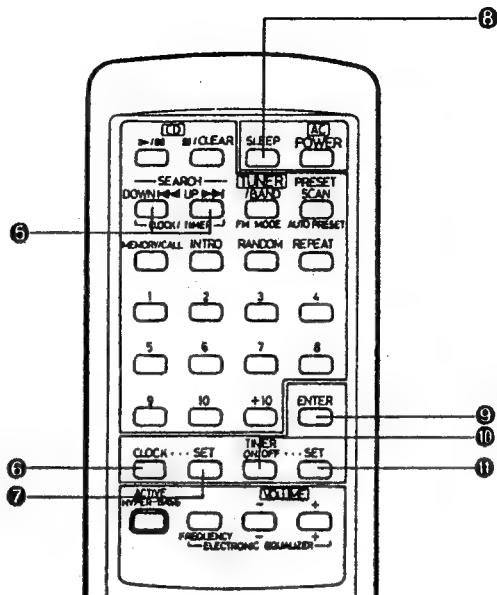
## CLOCK ADJUSTMENT

### (Using the remote control)

Names of parts in the clock/time section, and their functions:



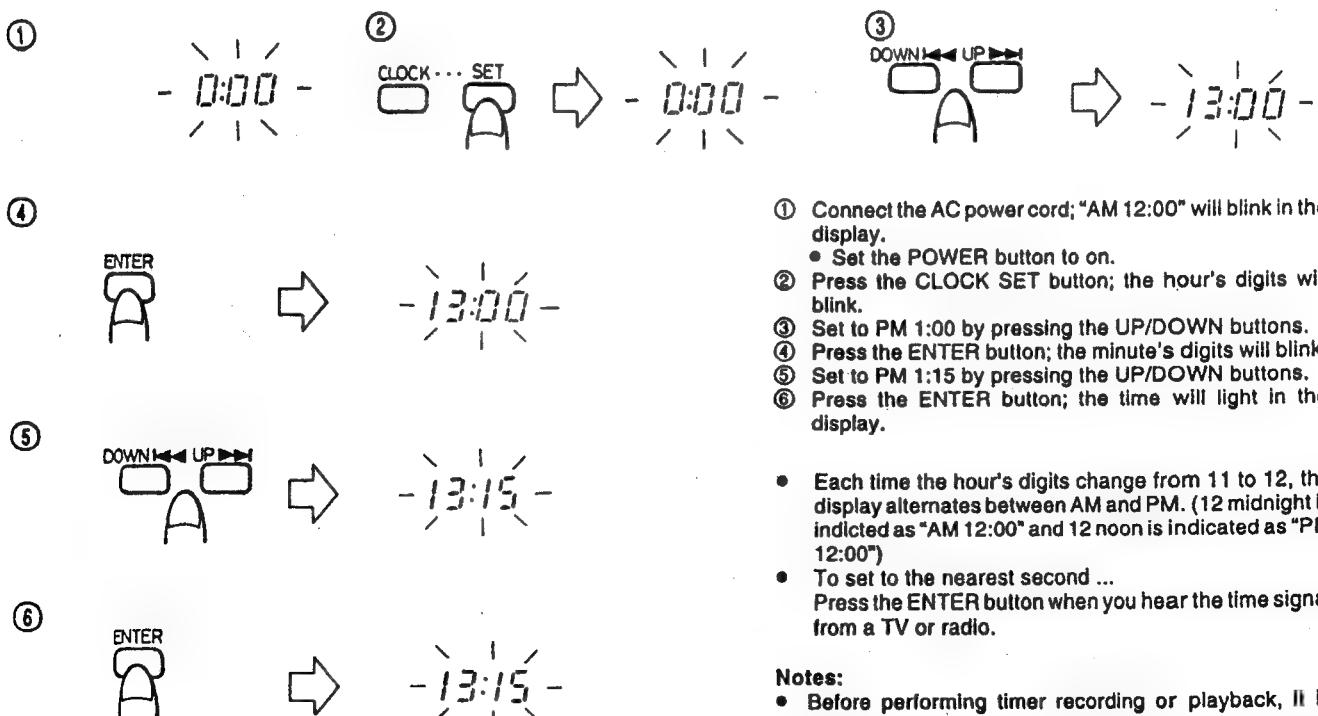
- ① Timer mode Indicator
- ② SLEEP Indicator
- ③ Timer indicator (ON/OFF)
- ④ Time display
- ⑤ DOWN/UP button  
(Used to set the time and timer)
- ⑥ CLOCK button
- ⑦ CLOCK SET button
- ⑧ SLEEP button
- ⑨ ENTER button
- ⑩ TIMER ON/OFF button
- ⑪ TIMER SET button



### Setting the current time

(when the PC-X130 is used first time)

(Example: to set the clock to PM 1:15)



① Connect the AC power cord; "AM 12:00" will blink in the display.

② Set the POWER button to on.

③ Press the CLOCK SET button; the hour's digits will blink.

④ Set to PM 1:00 by pressing the UP/DOWN buttons.

⑤ Press the ENTER button; the minute's digits will blink.

⑥ Set to PM 1:15 by pressing the UP/DOWN buttons.

⑦ Press the ENTER button; the time will light in the display.

• Each time the hour's digits change from 11 to 12, the display alternates between AM and PM. (12 midnight is indicated as "AM 12:00" and 12 noon is indicated as "PM 12:00")

• To set to the nearest second ...  
Press the ENTER button when you hear the time signal from a TV or radio.

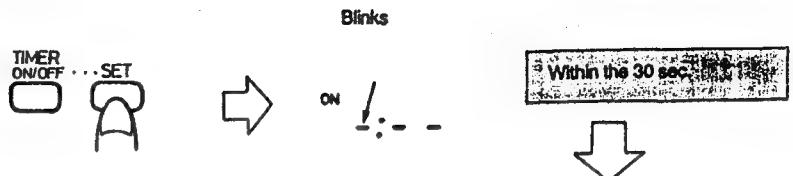
#### Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- Press the CLOCK button to display the current time during CD play, tape play or radio reception. The current time will be displayed for 10 seconds after which the display returns to the previous mode.

## TIMER OPERATIONS

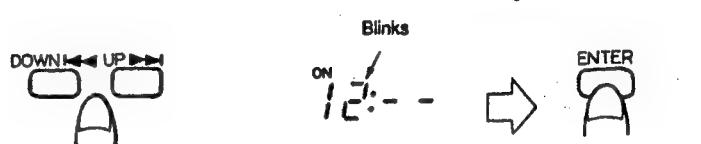
### Setting the timer

- The current time must be set before the timer can be used.
- ① Set the POWER button to on.**
- ② Press the TIMER SET button.**

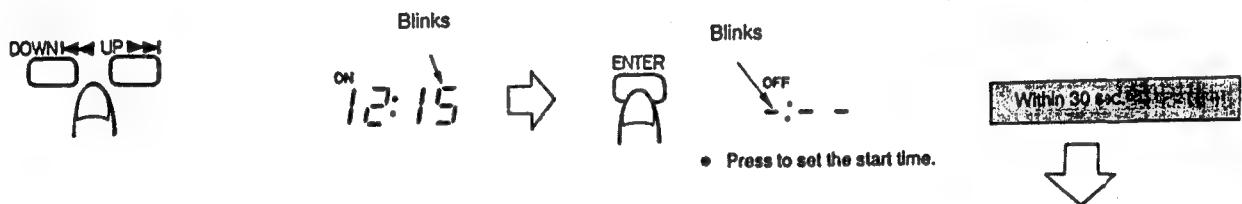


- ③ Set the start time.**  
(Example: when the timer start time is set to PM 12:15)

- Adjust the hours.



- Adjust the minutes.

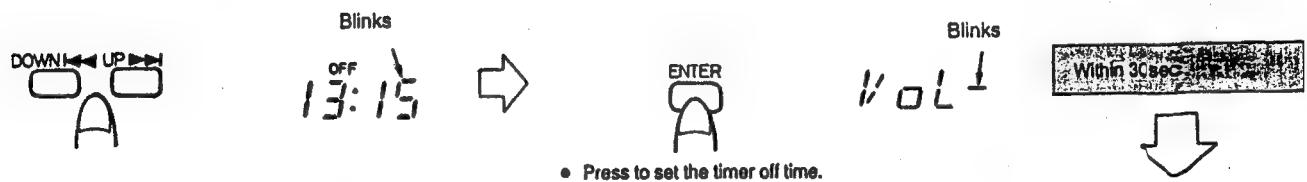


- ④ Set the stop time.**  
(Example: when the timer stop time is set to PM 1:15)

- Adjust the hours.



- Adjust the minutes.



- ⑤ Set the volume.**



- The selected volume is set.

The playback level is determined by the position of VOLUME control.

When the UP button is used to select the volume

VOL - → VOL 0 → VOL 15 → VOL 25

The volume decreases to zero at the timer start time, and the sound fades in.

- The unit enters the previously engaged mode and timer setting is completed.

#### • To check the timer setting

1. Press the TIMER ON/OFF button.
2. When the previous engaged mode is displayed, timer setting has been completed.

#### Notes:

- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- When the timer is set, ":-:-" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. To continue listening after the timer stop time, display the timer stop time, change the hours digits to ":" using the UP button and press the ENTER button.

#### Timer recording

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

#### Operations

1. Set the POWER button to on.
2. Load a cassette in Deck A.
  - Insert the cassette with the side to be recorded facing out.
3. Set the timer start and stop times, then set the required volume, in this order. (Refer to "Setting the timer" on page 46.)
  - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
4. Press the TUNER/BAND button.
  - Tune to the station to be recorded. (Refer to page 33.)
5. Set the POWER button to STANDBY.
6. Press the REC and PLAY buttons of deck simultaneously.

#### Note:

Timer recording will start at the preset start time. The power will not be switched off at the timer-off time during tape operation, but will be switched off when the tape ends.

#### • To cancel timer operation

Set the POWER button to on, then press the TIMER ON/OFF button so that the timer mode indicator (⌚) goes out.

If you do this, timer recording will not start at the timer start time.

#### Note:

Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.

#### Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

#### Operations

1. Set the POWER button to on.
2. Set the timer start and stop times, then set the volume, in this order. (Refer to "Setting the timer" on page 46.)
3. Select the source sound.

Source sound	Timer mode	Operations
CD play	CD	Load a disc and press the STOP/CLEAR button to set the CD mode.
Tape playback	TAPE	Load a cassette tape.
Radio broadcast	TUNER	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.

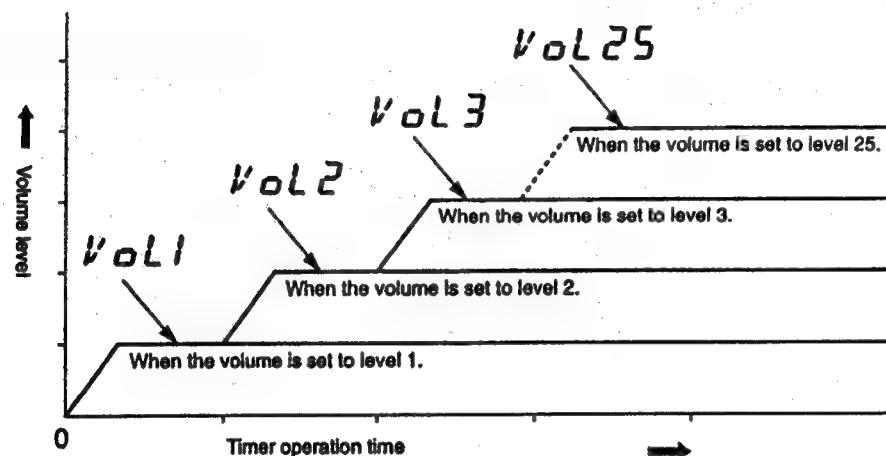
- Timer playback of a CD is possible in programmed order. (See page 27.)
- The volume can be set to 25 different levels.
- 4. Switch the power off.  
(When performing the timer playback of tape, press the PLAY button of the deck.)

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. (Tuner or CD)

The power will not be switched off at the specified time during tape operation and will be switched off at the tape end.

The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- Volume setting and fade-in operation



### SLEEP OPERATIONS

Use this when you want to fall asleep while listening to a tape, radio broadcast or CD.

- ① Set to the required source.

	Operations
Radio broadcast	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.
CD play	Load a disc and press the ▶/II button to play the disc.
Tape playback	Load a cassette and press the ▶ PLAY button to play back the tape.

- ② Press the SLEEP button to set to the sleep time.



- Sleep times of 30, 60, 90 or 120 minutes can be set.

When you release the SLEEP button, the source is displayed after 10 sec.

- To cancel timer operation

Set the POWER button to on, then press the TIMER ON/OFF button so that the timer mode indicator (①) goes out.

Notes:

- When the volume setting is set to "Vol -" (volume level is not specified), the timer playback volume is set to that of before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- In the fade-in mode, the volume gradually increases from zero.



- The sleep operation will start and the power will be switched off after the specified time. (Tuner & CD modes)

The power will not be switched off at the specified time during tape operation and will be switched off at the tape end.

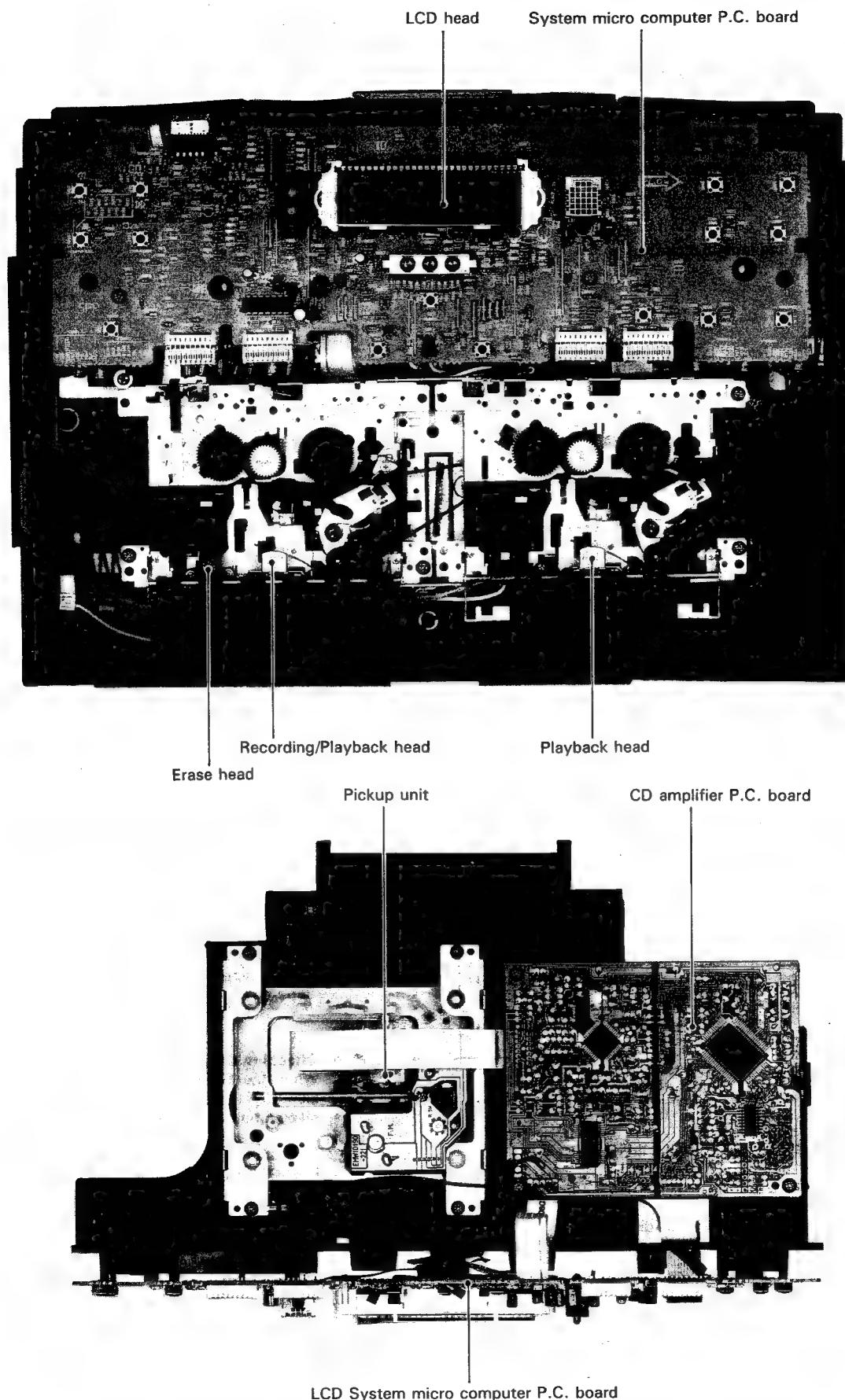
- Checking the sleep time

When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- To cancel the sleep operation

Press the POWER button to switch the power off.

## Location of Main Parts



## 5. Removal of Main Parts

### ■ Front Cover Assembly (refer to Fig.1, 2)

1. Remove the six screws ① retaining the rear cabinet assembly of the body.
2. Remove the two screws ② retaining both sides of the rear cabinet assembly.
3. Press the eject buttons on both sides A and B and open the cassette door.
4. Turn the front cover upward and dismount the front cover assembly from the body.

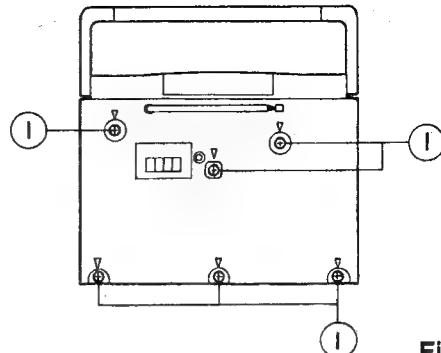
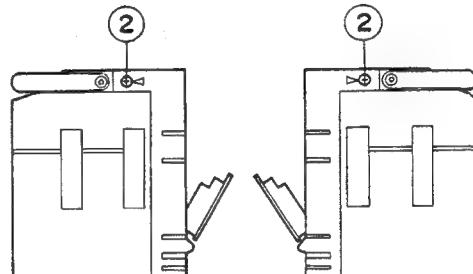


Fig. 1



Push eject button  
Open the door.

Fig. 2

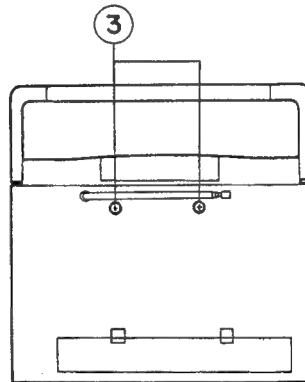


Fig. 3

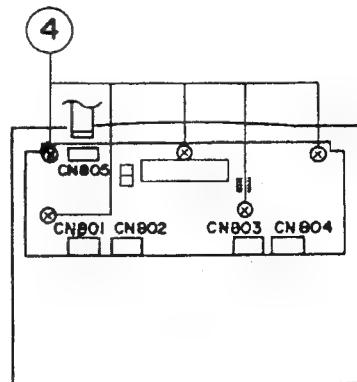


Fig. 4

### ■ LCD P.C. Board (refer to Fig.4)

1. Remove the five screws ④ retaining the LCDP.C. board from the CD player assembly.
2. From the connector CN805 on the LCD P.C. board, disconnect the parallel wire outgoing from the connector FW601 on the CD amplifier P.C. board.

### ■ CD Amplifier P.C. Board (refer to Fig.5)

1. Remove the three screws ⑤ retaining the CD amplifier P.C. board from the CD player chassis.
2. From the connector P011 on the CD mechanism P.C. board, disconnect (remove) the #6PIN connector outgoing from the CD amplifier P.C. board.
3. From the connector CN501 on the CD amplifier P.C. board, remove the parallel wire outgoing from the CD pickup P.C. board.

### ■ CD Mechanism Assembly (refer to Fig.5)

Remove the four screws and ⑦ retaining the CD mechanism assembly.

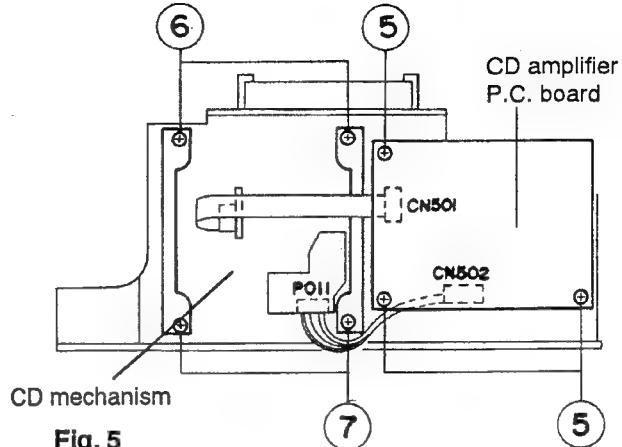


Fig. 5

### ■ Cassette Mechanism Assembly (refer to Fig.6)

1. Remove the four screws ⑧ retaining the cassette mechanism assembly.
2. From the connector CNA31 on the main P.C. board, disconnect the #3PIN connector outgoing from the replay head of the cassette mechanism B.
3. From the connector CNA32 on the main amplifier P.C. board, pull out the #2PIN and #5PIN connectors outgoing from the deletion, recording and replay heads of the cassette mechanism A.
4. Pull out the black and gray wires, and the red and pink wires outgoing from the replay select switch, yellow and brown wires outgoing from the recording select switch of the cassette mechanism A, as well as the white and violet wires and blue and orange wires outgoing from the replay select switch of the cassette mechanism B respectively from the connector CNA35 on the main amplifier P.C. board.
5. From the connector CNA36 on the main amplifier P.C. board, pull out the #4PIN parallel wire outgoing from the drive motor.

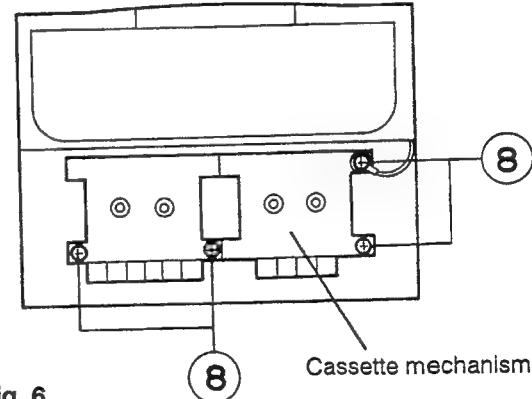


Fig. 6

### ■ Main Amplifier P.C. Board (refer to Fig. 7)

1. Remove the four screws ( ⑨ and ⑩ ) retaining the main amplifier P.C. board.
2. From the test point TP1 on the main amplifier P.C. board, pull out the black wire outgoing from the rod antenna.
3. Battery contact P.C. board (peel off the bond fixing the rear cover. Then, it is possible to pull out the main amplifier P.C. board together with the battery contact P.C. board )

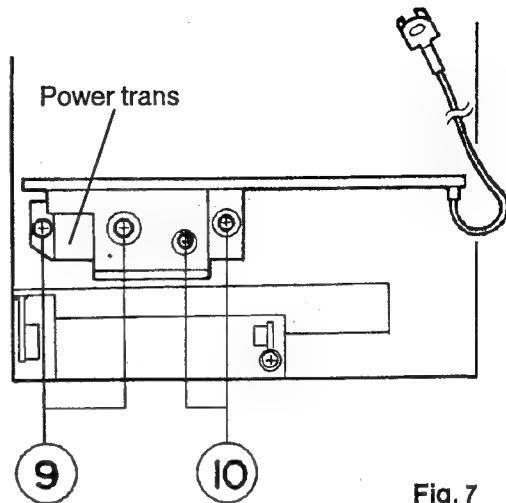


Fig. 7

### ■ Heat sink (refer to Fig. 8)

1. Remove the two screws ⑪ retaining the IC101 and IC201 from the heat sink.
2. Remove the two screws ⑫ retaining the transistor ( Q901 and Q921 )from the heat sink.
3. Remove the heat sink from the main P.C. board.

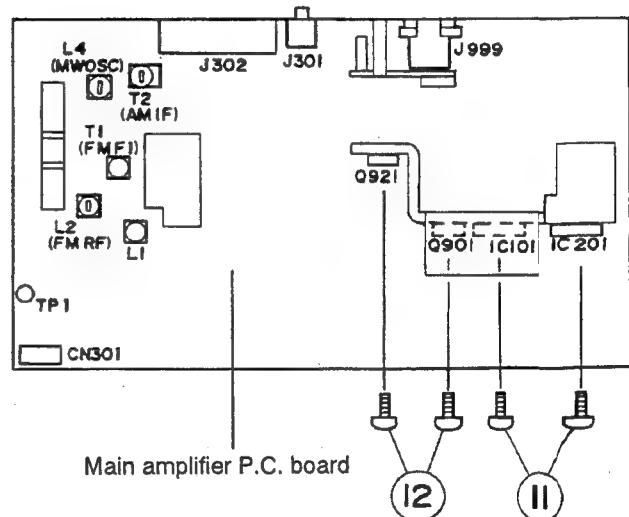


Fig. 8

## Analytic Drawing and Parts List

1

2

3

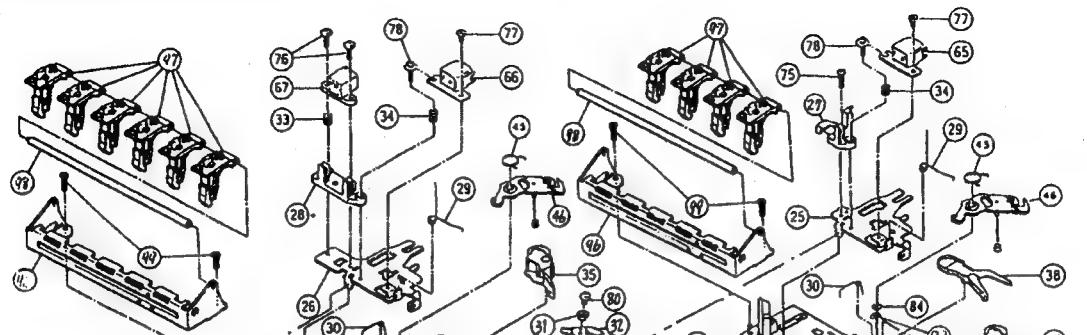
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## ■ Analytic Drawing of Cassette Mechanism : Block No. M 1

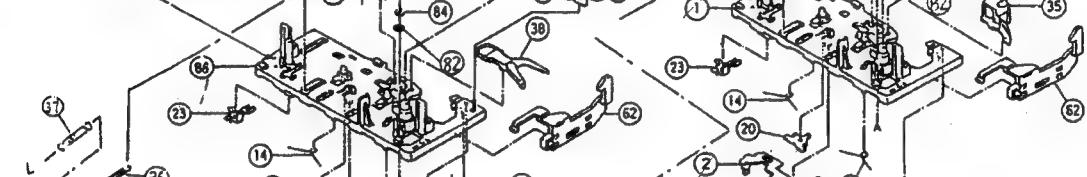
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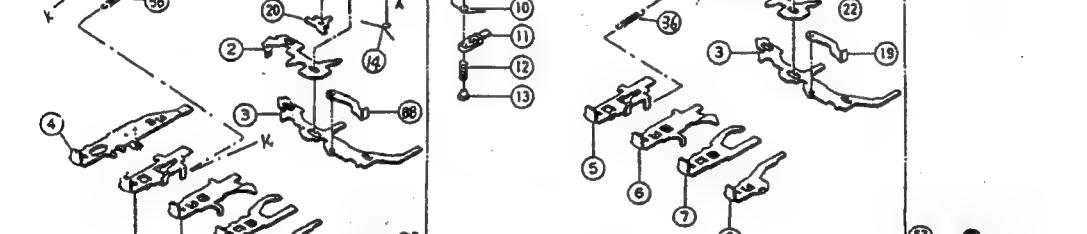
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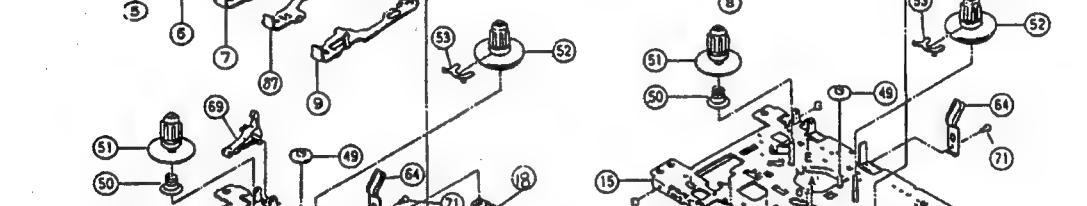
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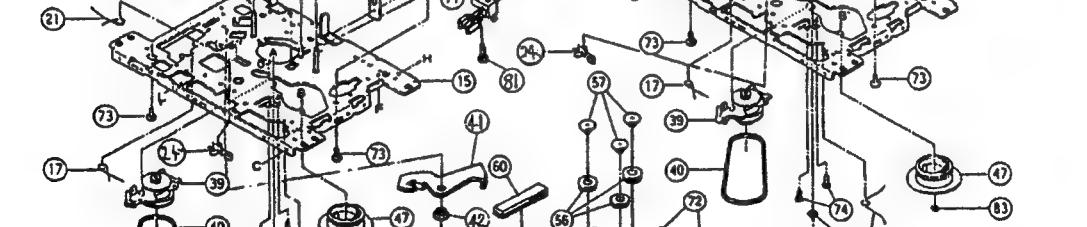
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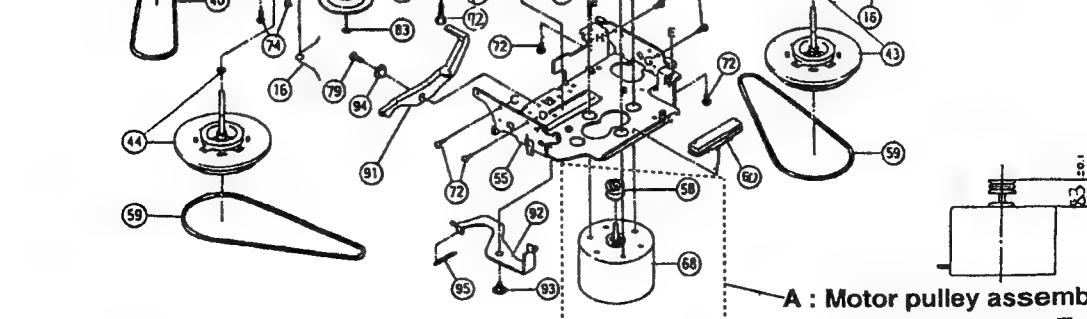
E



F



G



## ■ Mechanism assembly parts list

BLOCK NO. M1MM

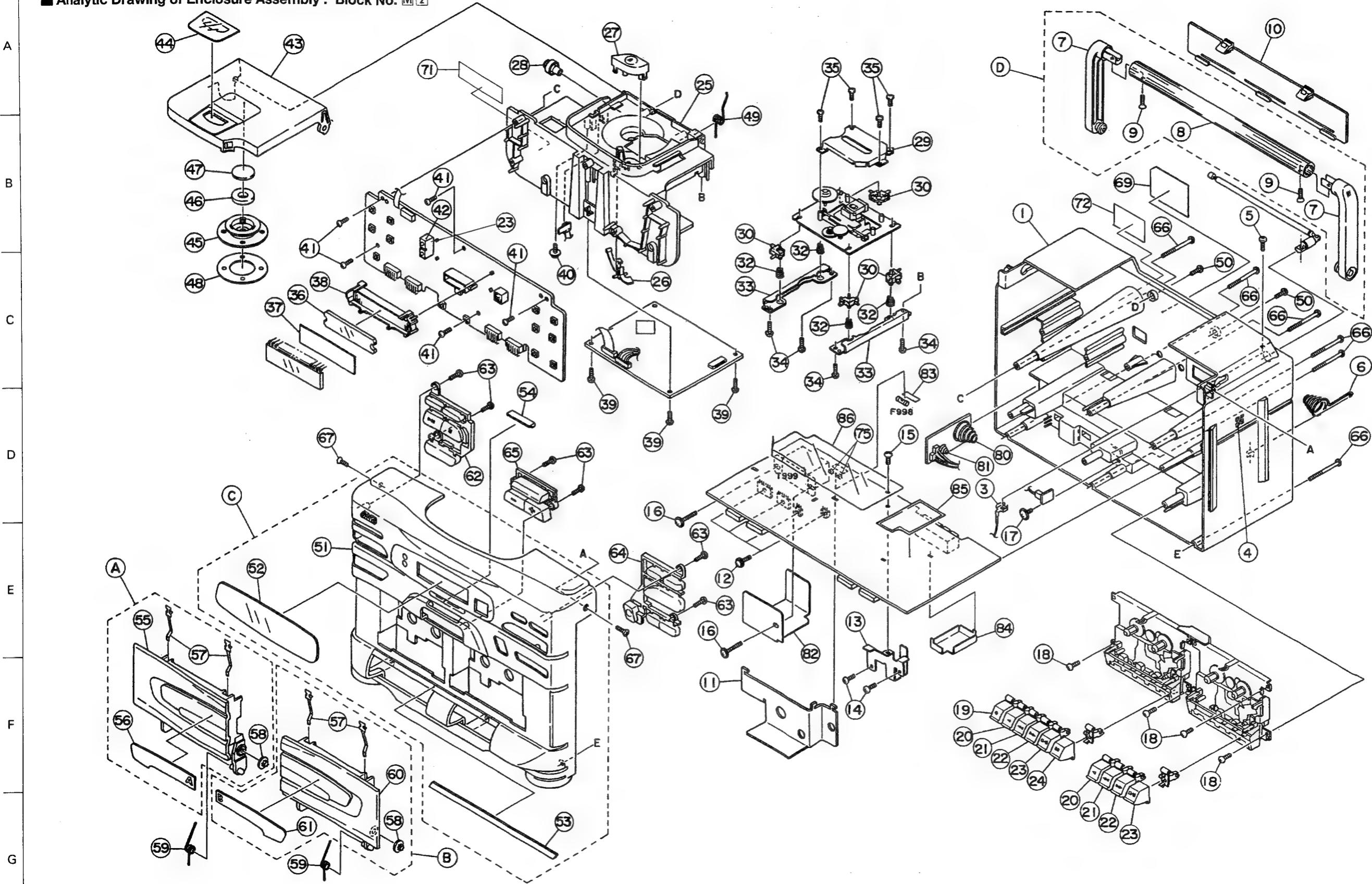
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
A	1921123187T	CAPSTAN MOTOR	REF.58,68	1	
1	192114301ZT	DISK BASE		1	
2	19211409T	SWITCH PLATE		2	
3	19211438T	LOCK CAM		2	
4	19211422T	PUSH LEVER	ACTUATER REC.	1	
5	19211484T	PUSH LEVER	PLAY	2	
6	19211424T	PUSH LEVER	REW	2	
7	19211425T	PUSH LEVER	FF	2	
8	19211426T	PUSH LEVER	STOP	1	
9	19211461T	PUSH LEVER	PAUSE	1	
10	19211413T	SPRING	P.CONTROL	1	
11	19211455T	PAUSE LEVER		1	
12	19211412T	SPRING		1	
13	19211411T	LOCK STOPPER		1	
14	19211414T	SPRING		3	
15	192101501ZT	CHASSIS BASE		2	
16	19211416T	SPRING	E.ACTUATER	2	
17	19211417T	SPRING	PS.LEVER	2	
18	64010138T	LEAF SWITCH		1	
19	182101159T	EJECT LEVER		1	
20	19211420T	ARM STOPPER		2	
21	19211449T	SPRING	REC.BUTTON LEV.	1	
22	19211433T	SPRING	BUTTON LEVER	1	
23	MSW-1541T	LEAF SWITCH		2	
24	640101161T	LEAF SWITCH		2	
25	19210311T	HEAD PANEL		1	
26	19210314T	HEAD PANEL		1	
28	19210306T	HEAD BASE		1	
29	19210309T	SPRING		2	
30	19211418AT	SPRING		2	
31	19211437T	COLLAR		1	
32	19211434T	CONTROL ARM		1	
33	18210308T	SPRING		1	
34	18210307T	SPRING	AZIMUTH	2	
35	192104306T	PINCH ROLLER		2	
36	18210150T	SPRING	P.BUTTON LEVER	2	
37	18211311T	SPRING	E.SLIDE LEVER	1	
38	19212604TT	KICK LEVER		2	
39	192107308T	R.F.CLUTCH		2	
40	18210711T	FR BELT		2	
41	19210201T	RECORDING ARM		1	
42	19211437T	COLLAR		1	
43	192109318T	FLYWHEEL		1	
44	192109317T	FLYWHEEL		1	
45	19212605T	SPRING	GEAR PLATE	2	
46	192126502ZT	GEAR PLATE		2	
47	19212602T	CAM GEAR		2	
49	18211070T	IDLER GEAR		2	
50	18291010T	SPRING	BACK TENSION	2	
51	192105304T	SUP.REEL DISK		2	
52	192105303T	T.U.REEL DISK		2	
53	19210506T	ADJUST RING		2	
55	19211211T	MOTOR BRACKET		1	
56	18211266T	RUBBER BUSHING		3	

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
57	18511418T	SCREW	MOTOR COLLER	3	
58	19211213T	MOTOR PULLEY		1	
59	19210923T	CAPSTAN BELT		2	
60	182112126T	FELT		2	
62	19211302T	SLIDE LEVER		2	
64	18291001T	SPRING		2	
65	MS15R-AA2N1	PB HEAD		1	
66	MS15R-AA2N1	R/P HEAD		1	
67	LE15A-C1	ERASE HEAD		1	
68	60020222T	CAPSTAN MOTOR		1	
69	18211069T	KICK LEVER		1	
71	91790000T	SCREW	M2X3	2	
72	91800000T	SCREW	M2X4	7	
73	96790000T	SCREW	M2X5	4	
74	99991809T	SCREW	M2X4.5	6	
75	90040000T	SCREW	M2X6	1	
76	92230000T	SCREW	M2X7.5	2	
77	91150000T	SCREW	M2X3	2	
78	99220000T	SCREW	M2X7:AZIMUTH	2	
79	91820000T	SCREW	M2X6	1	
80	99992041T	SCREW	M2X3	1	
81	91810000T	SCREW	M2X5	1	
82	99990003T	POLY WASHER		2	
83	94220000T	WASHER		2	
84	99990313T	WASHER		2	
86	192114316T	BUTTON BASE		1	
87	19211466T	BUTTON LEVER		1	
88	19211464T	KICK LEVER		1	
91	19211209T	KICK LEVER		1	
92	18211268T	KICK LEVER		1	
93	18211223T	SCREW		1	
94	18211265T	COLLAR		1	
95	18211312T	SPRING		1	
96	18213106T	FRAME		2	
97	18213107T	SELECT LEVER		10	
98	18293103T	SHAFT		2	
99	99991402T	SCREW	M2X8	4	

1 2 3 4 5 6 7 8 9 10

## ■ Analytic Drawing of Enclosure Assembly : Block No. M 2



## ■ Enclosure Assembly Parts List

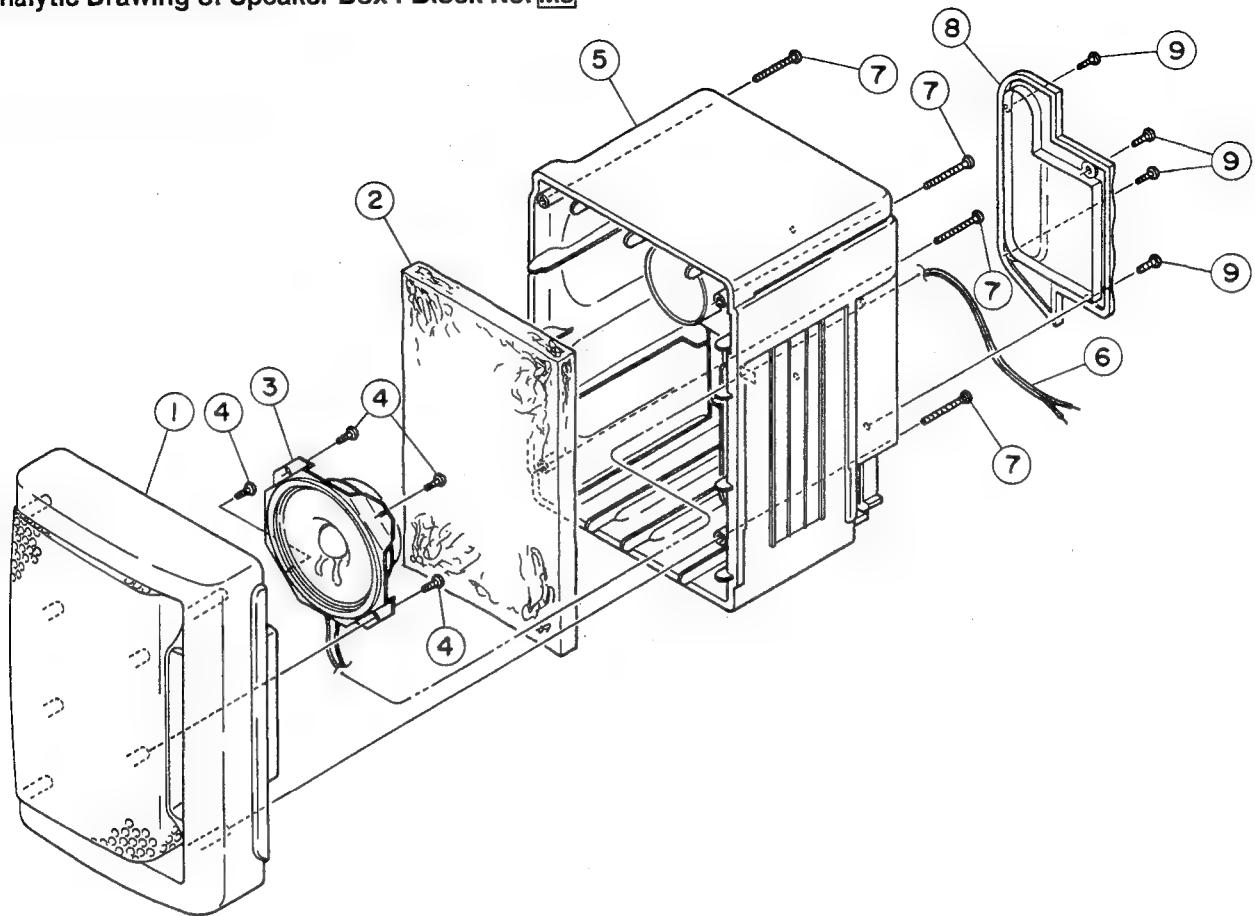
BLOCK NO. M2MM1111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	A	ZCPRX130K-CBA	CASSETTE CASE	REF.55-57	1	
	B	ZCPRX130K-CBB	CASSETTE CASE	REF.57,60,61	1	
	C	ZCPRX130K-FB	FRONT CABINET	REF.51-53	1	
	D	PCX130K-HANDLE	HANDLE	REF.7,8	1	
1	FSJC1003-002	REAR CABINET			1	
	2	VJA3006-00E	ROD ANTENNA		1	
	3	VYH5012-005SS	TERMINAL LUG		1	
	4	VYSH101-009	SPACER		1	
	5	SDSP3012N	SCREW		1	
	6	VYH5657-001	BATTERY SPRING	ROD ANT+REAR CA	1	
	7	VJH3061-002	HANDLE HOLDER		2	
	8	VJH4093-117SS	HANDLE PIPE		1	
	9	SHSF3012N	SCREW	HANDLE PIPE + H	2	
	10	VJC2016-023SS	BATTERY COVER		1	
	11	FSYH3003-001	HEAT SINK		1	
	12	DPSP3010Z	SCREW	P. TRANSISTOR+H.	4	
	13	FSKL4003-002	AC BRACKET		1	
	14	SBSF3012Z	SCREW	AC BKT+REAR CAB	2	
	15	SBST3006Z	SCREW	AC BKT + AMP PW	1	
	16	GBSF4020Z	SCREW	P. TRANS+REAR CA	2	
	17	E65923-003	SPECIAL SCREW	FOR BATTERY PWB	1	
	18	SBSF3012Z	SCREW	MECHA+REAR CABI	4	
	19	VXP3348-201	MECHA BUTTON	REC.	1	
	20	VXP3348-203	MECHA BUTTON	PLAY	2	
	21	VXP3348-204	MECHA BUTTON	REW	2	
	22	VXP3348-205	MECHA BUTTON	FF	2	
	23	VXP3348-206	MECHA BUTTON	STOP/EJECT	2	
	24	VXP3348-207	MECHA BUTTON	PAUSE	1	
	25	FSJD1002-001	CD CASE		1	
	26	VKS5416-001	LOCK ARM		1	
	27	VXP5160-003	SPRING		1	
	28	VYH4769-002	GEAR		1	
	29	VJD5410-005	PICK COVER		1	
	30	VYH6596-201	CD CUSHION	FOR CD MECHA	4	
	31	VKW4693-101	CONICAL SPRING	FOR CD MECHA	2	
	32	VKW4693-102	CONICAL SPRING	FOR CD MECHA	2	
	33	VKL7209-002	CD MECHA HOLDER		2	
	34	SBSF3012Z	SCREW	CD ASS'Y+CD CAS	4	
	35	SDSF2006M	SCREW	CD MECHA+PICK C	4	
	36	FSYH4005-001	SHEET		1	
	37	FSJK4001-002	LENS		1	
	38	FSYH4006-001	LCD HOLDER		1	
	39	SBSF3012Z	SCREW	CD AMP PWB +CD	3	
	40	GBSF3010Z	SCREW		1	
	41	SBSF3012Z	SCREW	CONT.PWB+CD CAS	6	
	42	FSYH4015-001	LED REFLECTOR		1	
	43	FSJT1001-001	CD DOOR		1	
	44	FSJD4003-001	CD LENS		1	
	45	VYH3644-201	CLAMPER		1	
	46	VYH7313-001R	MAGNET		1	
	47	VYH7314-001	YOKE		1	
	48	VYH7315-004	PAD		1	
	49	VKW5034-001	CD DOOR SPRING		1	
	50	SBSF3014Z	SCREW	CD CASE + REAR	2	
	51	FSJC1005-002	FRONT CABINET		1	

BLOCK NO. M2MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	52	FSJD3001-001	LCD LENS		1	
	53	FSJD3002-002	CONTROL PLATE		1	
	54	FSYH4016-001	LED LENS		1	
	55	FSJT2002-001	CASSETTE DOOR(A)		1	
	56	FSJT3001-001	CASSETTE LENS(A)		1	
	57	VKY4180-001	CASSETTE SPRING		2	
		VKY4180-001	CASSETTE SPRING		2	
	58	VYH5601-001	GEAR		1	
		VYH5601-001	GEAR		1	
	59	FSKW4001-001	DOOR SPRING		1	
	60	FSKW4001-001	DOOR SPRING		1	
	61	FSJT2002-002	CASSETTE DOOR(B)		1	
	62	FSJT3001-002	CASSETTE LENS(B)		1	
	63	FSXP3001-001	CD BOTTON		1	
		SBSF2608Z	SCREW	FOR CD BUTTON	2	
		SBSF2608Z	SCREW	FOR TUNER BUTTO	2	
		SBSF2608Z	SCREW	FOR VOL BOTTUN	2	
	64	FSXP3002-001	TUNER BUTTON		1	
	65	FSXP3003-002	VOLUME KNOB		1	
	66	SBSF3050Z	SCREW	F.CABI+R.CABINE	6	
	67	SSSF3010M	SCREW	F.CABI+R.CABINE	2	
	69	FSYN7001-014T	NAME PLATE		1	EN
		FSYN7001-010T	NAME PLATE		1	GI
		FSYN7001-005T	NAME PLATE		1	E
		FSYN7001-002T	NAME PLATE		1	B
	71	FSYN7001-008T	NAME PLATE		1	G
	72	VND4220-001	LASER CAUTION		1	
	73	VND4221-001	CLASS 1 LABEL		1	
	74	FSYH4018-001	LED HOLDER		1	
		VJF4003-003	FOOT		2	
	75	VMZ0087-001Z	FUSE CLIP I/M	SECONDARY F998	2	
		VMZ0087-001Z	FUSE CLIP I/M	SECONDARY F997	2	
	80	VYH5483-001	SPRING	FOR UM-1	1	
	81	VYH6889-002	BATTERY SPRING	FOR UM-3	1	
	82	FSYH4017-002	SHIELD		1	
	83	VND4003-076	FUSE LABEL	F998	1	
		VND4003-076	FUSE LABEL	FOR F997	1	
	84	VMA4482-002SS	SHIELD CASE		1	
	85	VMA4572-002	SHIELD		1	
F 997		QMF51E2-5R0J1	FUSE		1	
	F 998	QMF51E2-5R0J1	FUSE		1	
	T 999	VTP57P2-12C	POWER TRANS		1	

## ■ Analytic Drawing of Speaker Box : Block No. M3



## ■ Speaker box parts list

BLOCK NO. M3MM

▲	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	1	FSJC2003-00A FSJC2002-00A	SP PANEL ASY(L) SP PANEL ASY(R)		1 1	
	2	FSYH4022-001	SOUND ABSOBER		1	
	3	VGS1001-017	SPEAKER	SP101	1	
	4	SBSF3010Z	SCREW	FOR SPEAKER	4	
	5	FSJC1008-001 FSJC1009-001	SP REAR CABI(L) SP REAR CABI(R)		1 1	
	6	VMP0040-002T	SPK CORD		1	
	7	FSYH4023-001	SCREW	FRONT+REAR	4	
	8	FSYH2001-001	COVER (L)		1	
	9	FSYH2001-002 SBSF3012M	COVER (R) SCREW	FOR COVER	1 4	

1

2

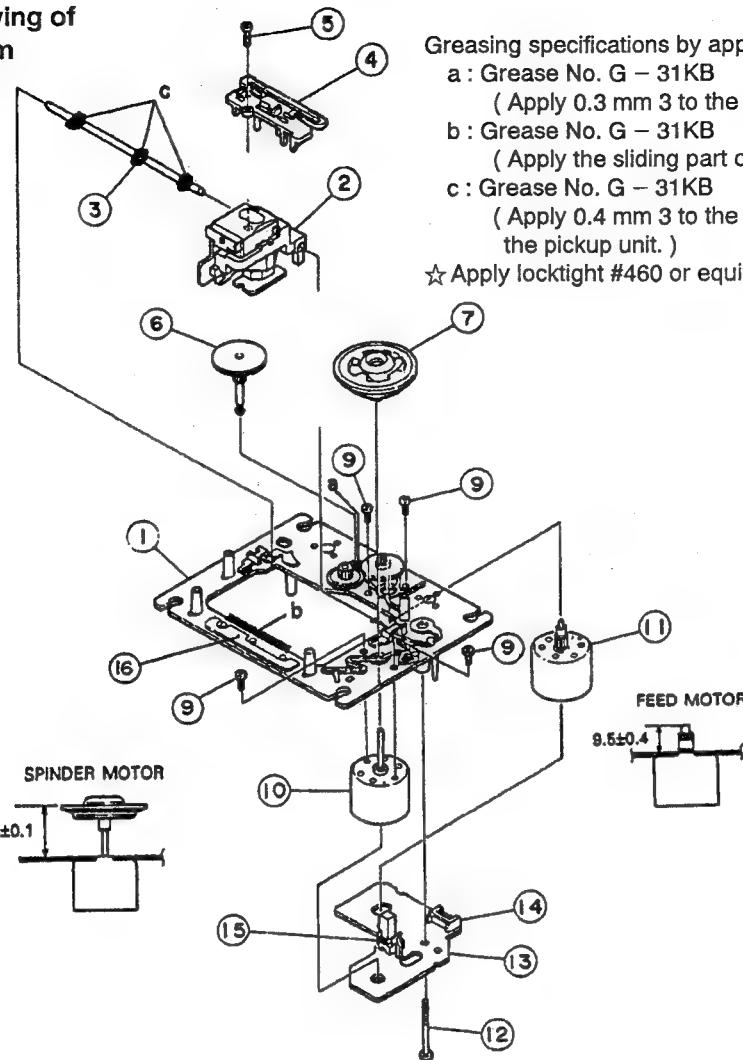
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**■ Analytic Drawing of  
CD Mechanism  
Block No. M4**



Greasing specifications by application point ( a, b, C )

a : Grease No. G - 31KB

( Apply 0.3 mm 3 to the hole. )

b : Grease No. G - 31KB

( Apply the sliding part of the pickup unit. )

c : Grease No. G - 31KB

( Apply 0.4 mm 3 to the shaft after assembling  
the pickup unit. )

★ Apply locktight #460 or equivalent after installation of ⑦.

A

B

C

D

E

**■ CD mechanism assembly parts list**

BLOCK NO. M4MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX
	1	EPB-002A	MECHA BASE ASSY		1	
	2	OPTIMA-6S	OPTICAL PICK-UP		1	
	3	E406777-001	GUIDE SHAFT		1	
	4	E307746-001	CD RACK		1	
	5	SDSF2006Z	SCREW		1	
	6	EPB-003A	MECHA GEAR		1	
	7	E75807-301	TURN TABLE		1	
	9	SDSP2003N	SCREW		1	
	10	E406783-001	DC MOTOR		1	
	11	E406784-001SA	DC MOTOR ASSY		1	
	12	E75832-001	SPECIAL SCREW		1	
	13	EMW1090-001	PRINTED BOARD		1	
	14	EMV5109-006B	CONN. TERMINAL		1	
	15	ESB1100-005	LEAF SWITCH		1	
	16	E4072312-001	DAMPER		1	

## 7. Main Adjustments

### ■ Test Instruments required for adjustment

1. Low frequency oscillator  
(oscillation frequency : 50Hz to 20kHz)  
(Output : 0 dBs with 60 Ω terminator)
2. Attenuator( Impedance : 600 Ω )
3. Test Tapes
  - VTT712 : tape speed,wow & flutter measurement
  - VTT703L : Head azimuth
  - VMT7036 : 1k/10kHz reference level check
  - VTT751 : Cross talk check
  - VTT752 : playback channel check
4. Electronic voltmeter
5. Resistor : 600 Ω for attenuator matching
6. Distortion meter
7. Torque gauge : Cassette type for CTG - N
8. Wow and Flutter meter
9. Frequency counter

### ■ Measuring conditions (Amplifier section)

- Supply voltage
- : AC 230V(50Hz) ; PC - X130E/EN/G/GI
  - : AC240V(50Hz) ; PC - X130B
- Battery DC : 12V
- Back up battery : 4.5V
- Reference output : Speaker ; - 10dBs (0.25V) / 8 Ω
- : Headphone ; - 29dBs(28mV) / 32 Ω

### ● Standard position of function switches

- Function switch ..... TAPE
- Tape select switch ..... NORMAL
- Active hyper bass ..... OFF
- Dubbing speed switch ..... NORMAL
- Measuring point ..... Headphone

### ● Standard position of volume control

- Equalizer frequency(100 Hz, 1 kHz, 10 kHz) .. CENTER
- Main volume adjust ..... 13
- Test tape for REC/PB ..... Normal tape (UR8)

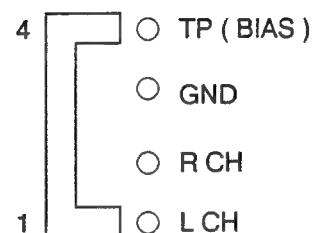
Standard test frequency

: 1 kHz (unless otherwise specified)

Reference input level : Test point CN301 ; - 18 dBs

For REC/PB, Check & measuring input use

: CN301; - 18.0 dBs (Component side)



Output for measuring unless otherwise specified

At headphone J301 with dummy load 32 Ω

### ■ Measuring condition (Radio section)

- Reference output : Speaker ; 50mW(0.63 V) / 8 Ω
- : Headphone ; 0.17mW(0.07V)/32 Ω
- AM frequency ..... 400Hz modulation 30%
- FM frequency ..... 400Hz modulation
- frequency deviation 22.5kHz

### ● Standard position of switches and controllers

- Function ..... RADIO
- Mode ..... STEREO
- Equalizer frequency ..... CENTER
- Active hyper bass ..... Off

### ● Careful points for adjustment

1. Connect 30 pF capacitor and 33 k Ω resistor to the output side of the IF sweeper in series while 0.032 μ F capacitor and 1000k Ω resistor to the input side in series.
2. Set output level of the IF sweeper as minimum as adjustable.

## ■ Mechanism &amp; Amplifier Sections

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Head azimuth adjustment	Test tape :VTT703L (10 kHz) Test point :Headphone ( Dummy load 32 Ω )	Play test tape VTT703L(10kHz) and adjust the head azimuth so that output level is maximum and phase discrepancy is minimum between the two channels.	Output :maximum Phase difference :minimum	Head adjusting screw
Motor speed adjustment	Test tape :VTT712(3kHz) Test point : Headphone ( Dummy load 32 Ω )	Play test tape VTT712 (3kHz) and near the end position. Should the following tape speed is out of specification, it is necessary to adjust the speed controller (external /semiifixed resistor).	Normal speed : $3010 \pm 80$ Hz High speed : $5400 \pm 400$ Hz	VRA61
Wow and flutter check	Test tape :VTT712(3kHz) Test point :Headphone (Dummy load 32 Ω )	Play test tape VTT712(3kHz) to tape start, middle and end position. Wow and flutter should be within the following allowance at the three positions.	Playback should be within 0.4% (JIS RMS)	–
Playback output level check	Test tape :VTT724(1kHz) Test point : Headphone (Dummy load 32 Ω )	1. Play test tape VTT724(1kHz) and switch the tape select to Metal position. The playback output level should be within – 1.5~ – 3.5 dB. 2. L, R difference level to be within ± 3dB.	Within – 1.5~ – 3.5dB within ± 3dB	–
Frequency response check	Test tape :TMT – 7036 (1kHz//10kHz)	Switch tape select to Normal position and volume at level 13 position. Play test tape TMT – 7036 then compare the level between 1 kHz and 10 kHz. Then defference level should be within $0\text{dB} \pm 3$ dB.	Difference of 10 kHz level from 1 kHz level : within $0 \pm 3$ dB	–

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Bias frequency adjustment	<ul style="list-style-type: none"> <li>• Adjust : FM mode</li> <li>• Confirm : AM mode</li> </ul> Test point :CN301	<p>Switch tape select to Normal position. In case that the bias frequency is out of specification, LA341 should be readjusted to standard and set to Tuner Rec. position for alignment.</p> <p>① Adjust bias frequency at FM mode.  ② Confirm bias frequency at MW mode.  ③ Confirm bias frequency at LW mode.</p>	Tuner frequency •FM / Bias frequency : 101.0kHz •AM522(M1) /Bias frequency : 97.2kHz • LW144(M6) /Bias frequency : 101.0kHz	LA341
Recording /playback frequency response check and adjustment	Test tape : UR(Normal tape) Test point : Headphone (Dummy load 32 Ω )	Select function to tape mode and volume at level 25 position. Reference level of – 20 dB, (1 kHz and 10 kHz) perform the REC/PB function. Play back the recorded signals, adjust VR41, so that the level of the 10 kHz signal is 0dB ± 2 dB to the level of the 1 kHz signal.	10 kHz : 0 ± 2 dB	VR41
Recording /playback sensitivity check	Test tape : UR(Normal tape) Input : CN301 Test point : Headphone (Dummy load 32 Ω )	Supply 1 kHz, – 18 dBs signal to the test point CN301 and record it. Play it back while checking that the level is within 0 ± 3 dB to the monitor level.	Reference level :Monitor level 0 ± 3 dB	—
Recording / playback distortion check	Test tape : UR(Normal tape) Input : CN301  Test point : Headphone (Dummy load 32 Ω )	Supply 1 kHz, – 18 dBs signal to the test point CN301 and record it. Play it back while checking that distortion is less than 5 %.	Less than 5 %	—

## ■ Tuner Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
AM IF tadjust and check (All version)	<ul style="list-style-type: none"> <li>• Band select : MW or AM</li> <li>• Receiving frequency : Near the upper band edge where no signal comes in.</li> <li>• Volume control : Minimum gain position.</li> <li>• Tuner Input : Positive side to TP3</li> <li>• Tuner output : Positive side to TP6</li> <li>• Negative side to TP7</li> </ul>	<p>• Adjust above mentioned aligning position, so that maximum and symmetrical wave from (See Fig.a) can be obtained, in this case, the wave peak should appear on the center marker(450kHz) in the scope of sweeper.</p> <p>• On the AM IF circuit, IF filter is solid units, so there is unnecessary for IF tuning.</p> <p>• In case if tuning may be needed (Repair etc.), do the above mentioned alignment.</p>		T2
FM IF adjust and check (All version)	<ul style="list-style-type: none"> <li>• Band select : FM</li> <li>• Receiving frequency</li> <li>• Volume control : Minimum gain position.</li> <li>• Tuner input : Positive side to TP5</li> <li>• Tuner output : Positive side to TP6</li> <li>• Negative side to TP7</li> </ul>	<p>① Remove CF3 so that " S " curve may be changed to IF wave from as shown Fig. a. Adjust T1 farther more to obtain maximum and balanced wave from .</p> <p>② Put back CF3 so that " S " curve on the scope may obtain maximum and balanced wave from as shown Fig.b.</p> <p>* On the FM circuit, IF filter and discriminator is solid units so there is unnecessary for IF tuning. In case IF tuning may be needed (Repair etc.), do that above mentioned alignment.</p> <p>* Note for G/GI , E/EN version</p> <p>① As to " G/GI " , " E/EN " version, FM IF alignment is necessary.</p> <p>② Receive 98MHz, 22.5 kHz dev. Input level, about – 3dB limiting sensitivity level.</p> <p>③ Adjust T1, no farther improvement.</p>		T1

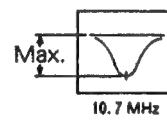


Fig.a

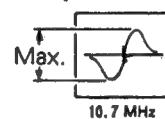


Fig.b

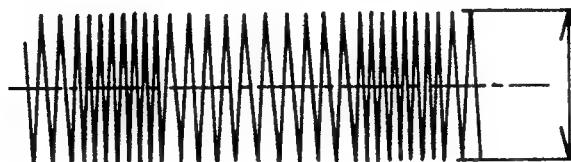
## ■ Tuner Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
LW RF tracking check and adjust (All version)	Band select : LW Tuner Input : Standard loop antenna Measuring point : TP9	<ul style="list-style-type: none"> <li>Frequency of SSG :144kHz</li> <li>Number preset memory : Max. capacity( M6)</li> <li>1. Adjust L6 to obtain <math>1.1V \pm 0.02V</math>at TP9.</li> <li>Frequency range : 144 kHz</li> <li>Receive 144 kHz(M6)</li> <li>2. Receive 144kHz signal from an AM oscillator by the set while adjusting L5to maximize headphone output.</li> <li>Frequency range : 288kHz</li> <li>Recieve 288 kHz(M7)</li> <li>3. Receive 288 KHz signal from an AM oscillator by the set while adjusting TC3 to maximize headphone output.</li> <li>4. Repeat the above steps 2. and 3. to obtain maximum outputs respectively.</li> </ul>	$1.1V \pm 0.02V$	L6 L5 TC3 L5, TC3
MW or AM RF tracking check and adjust (All version))	Band select : AM or MW Tuner Input : Standard loop antenna	<ol style="list-style-type: none"> <li>Receive 603 kHz signal ( preset No.3) from the AM oscillator by the set while adjusting L3 to maximize headphone output.</li> <li>Receive 1404 kHz signal from an AM oscillator by the set while adjusting TC2 to maximize headphone output.</li> <li>Repeat the above steps 1. and 2. to obtain maximum outputs respectively.</li> </ol>	Output level :maximum	L3 TC2 L3, TC2
FM RF tracking check and adjust (All version)	<ul style="list-style-type: none"> <li>Band select : FM</li> <li>Tuner input : Dummy antenna for unbalance <math>75 \Omega</math></li> <li>Positive side to TP1</li> <li>Negative side to TP2</li> </ul>	<ul style="list-style-type: none"> <li>Receive 88 MHz signal ( preset No.3) from an FM oscillator by the set while adjusting L2 to maximize headphone output .</li> </ul>	Output level : maximum	L2

### ■ CD player Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Normal disc :CTS1000 Oscilloscope	<p>1. Connect an oscilloscope between TP503 ( Hot side ) and TP502 ( Earth side ).</p> <p>2. Shortcircuit between pin ② and pin ⑤ of FW501, and supply 8 V to pin ③ .</p> <p>3. Playback a normal disc.</p> <p>4. Shortcircuit between TP504 and TP502.</p> <p>5. Adjust VR501 so that DC level of tracking error signal becomes zero ( observed by oscilloscope ).</p>	Set the center of P – P to the DC zero level.	VR501

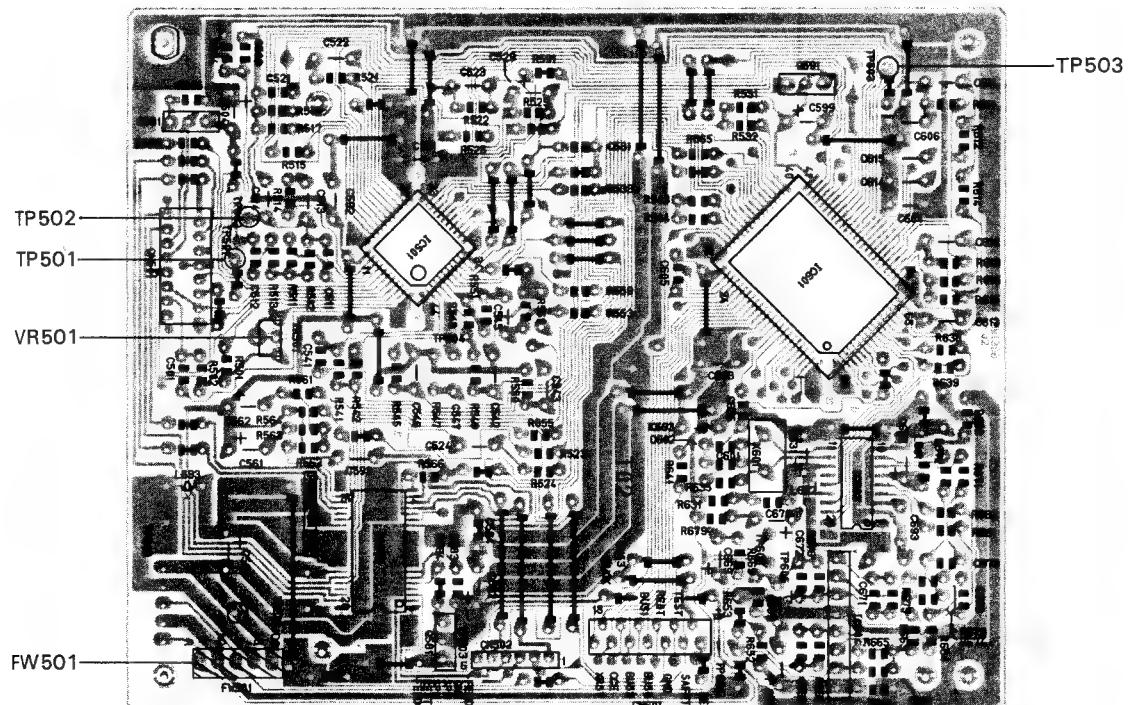
Tracking offset waveform



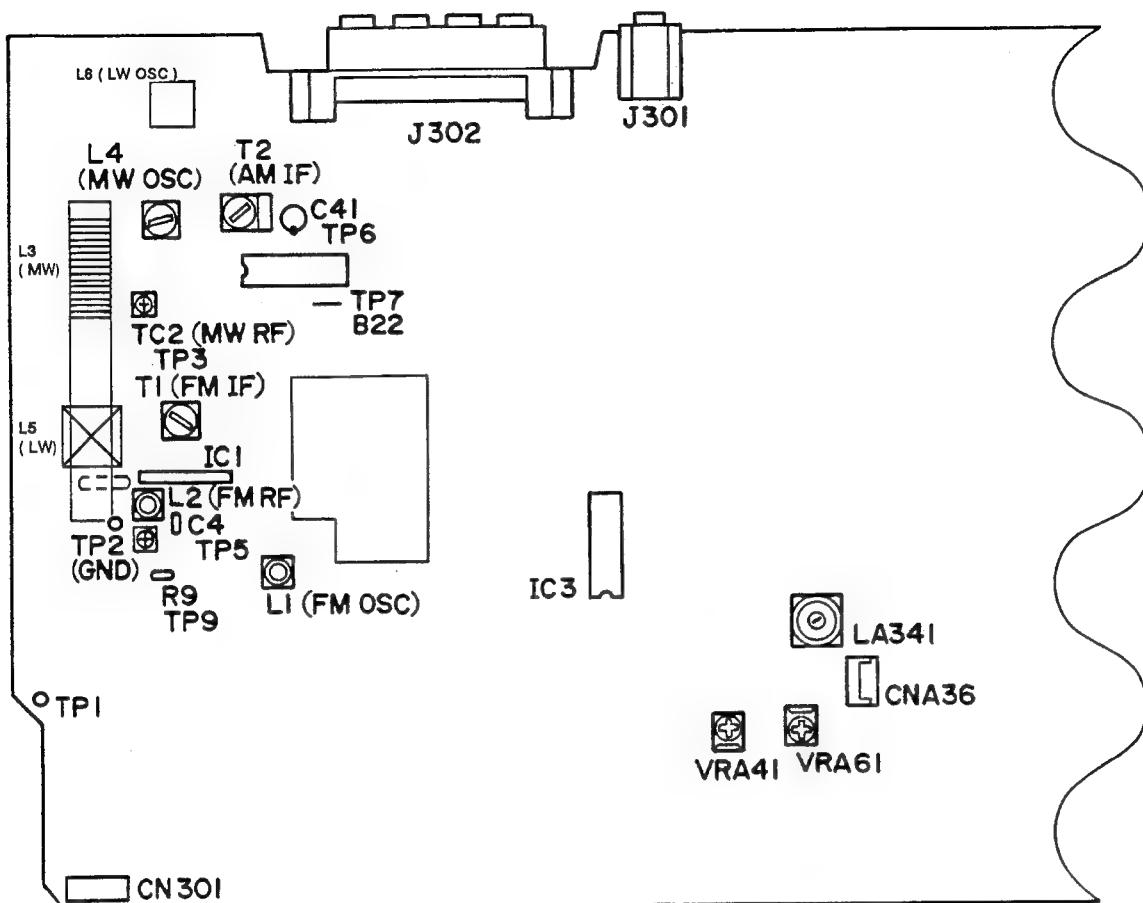
Set the center of P-P to the DC zero level.

Note : (1) Adjust VR501 so that the waveform is vertically symmetric with respect to the zero level.  
 (2) Input to the oscilloscope should be DC coupling.

### ■ Arrangement of adjusting positions : CD amplifier P.C. board

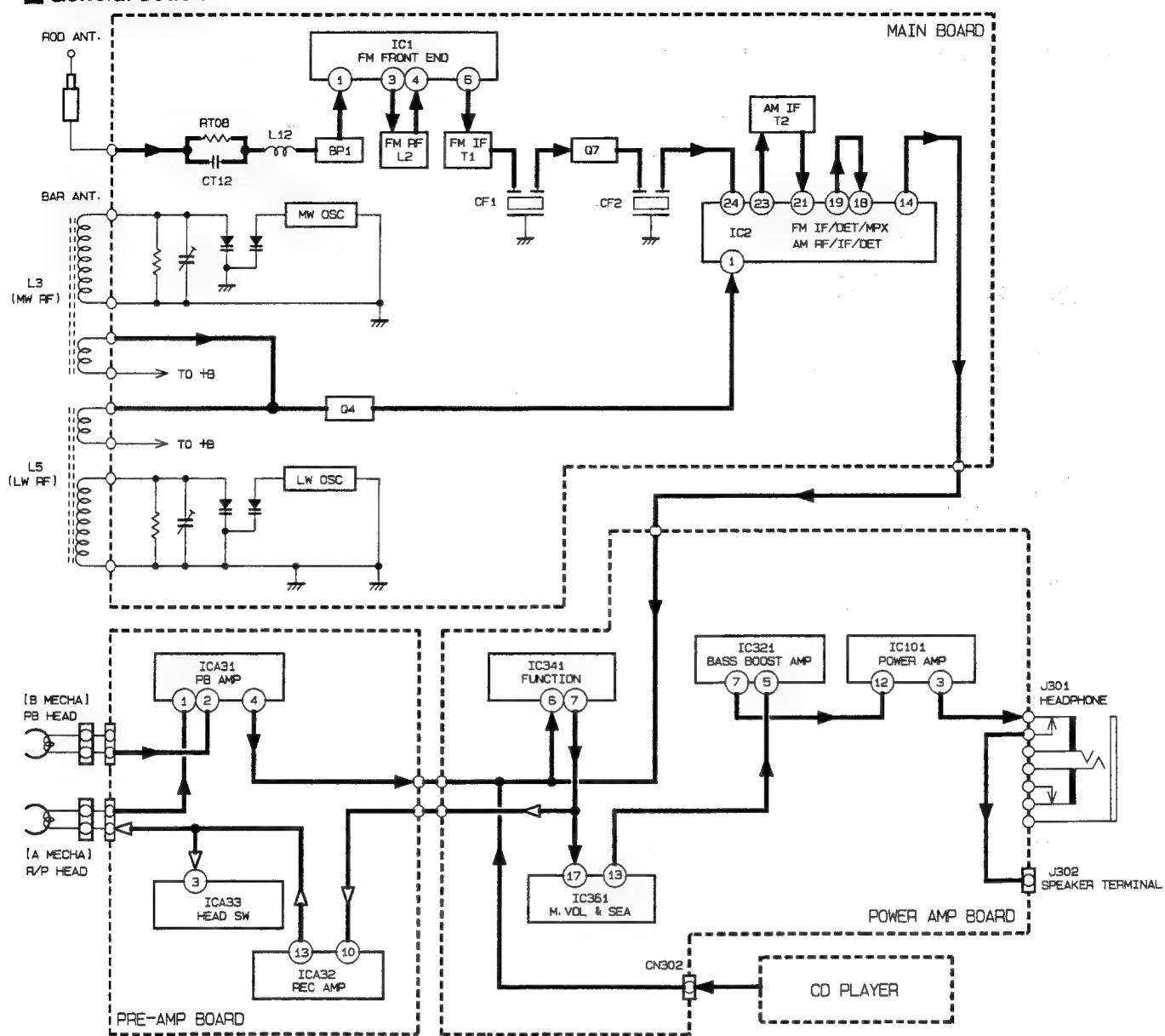


■ Arragement of Adjust : Main P.C. board ( All version)

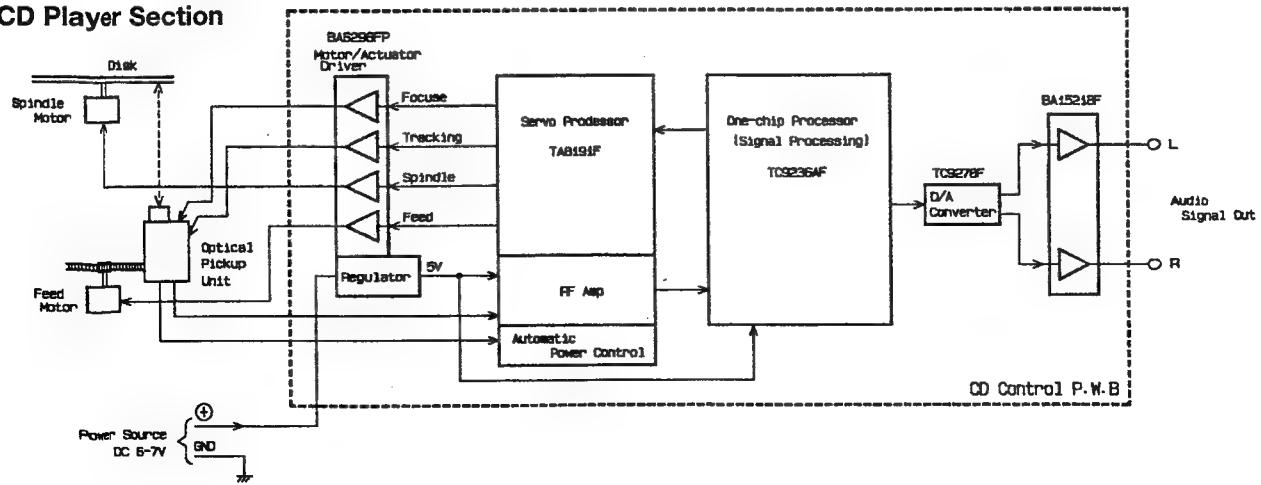


## Block Diagram

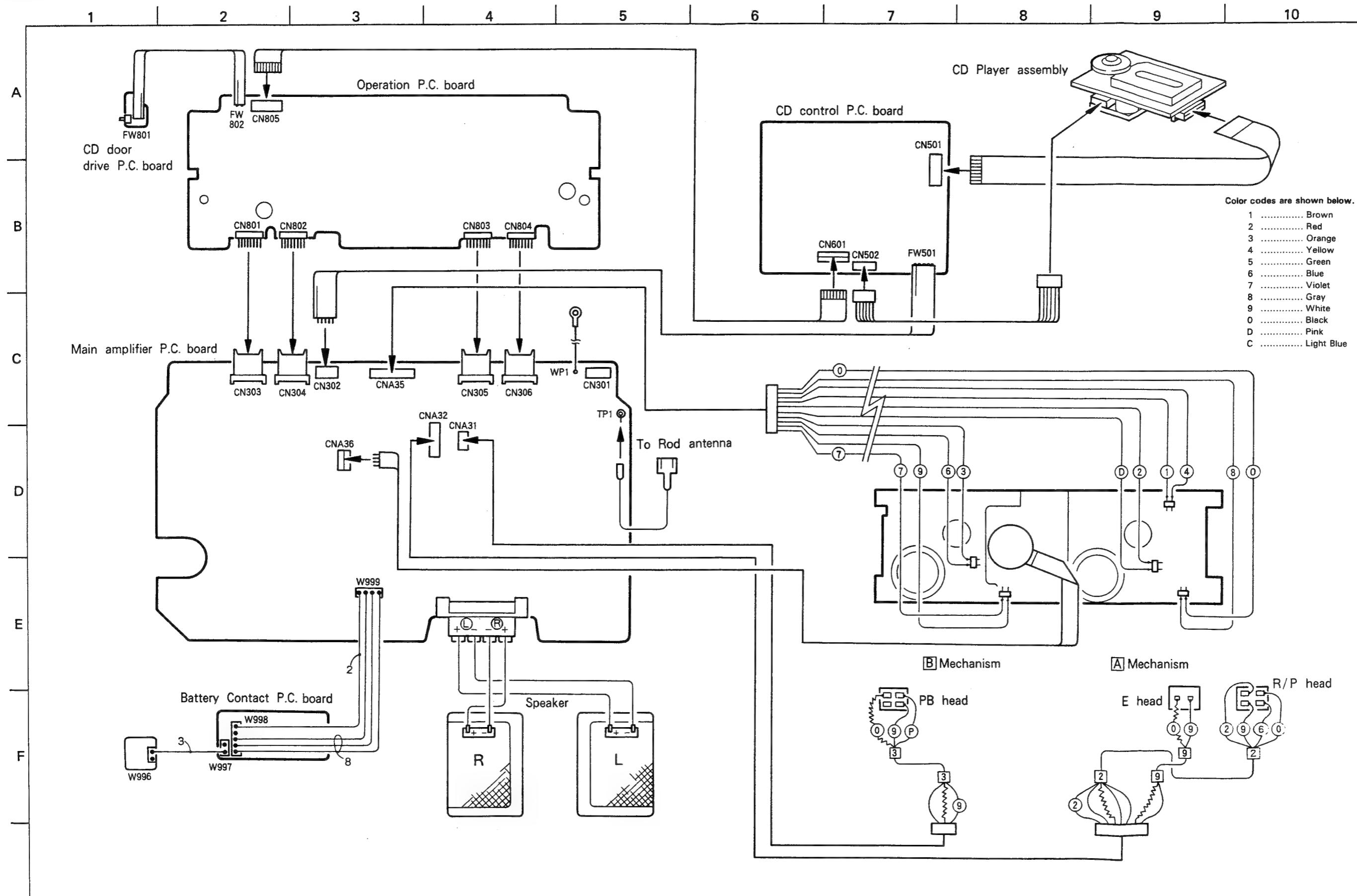
### ■ General Section



### ■ CD Player Section

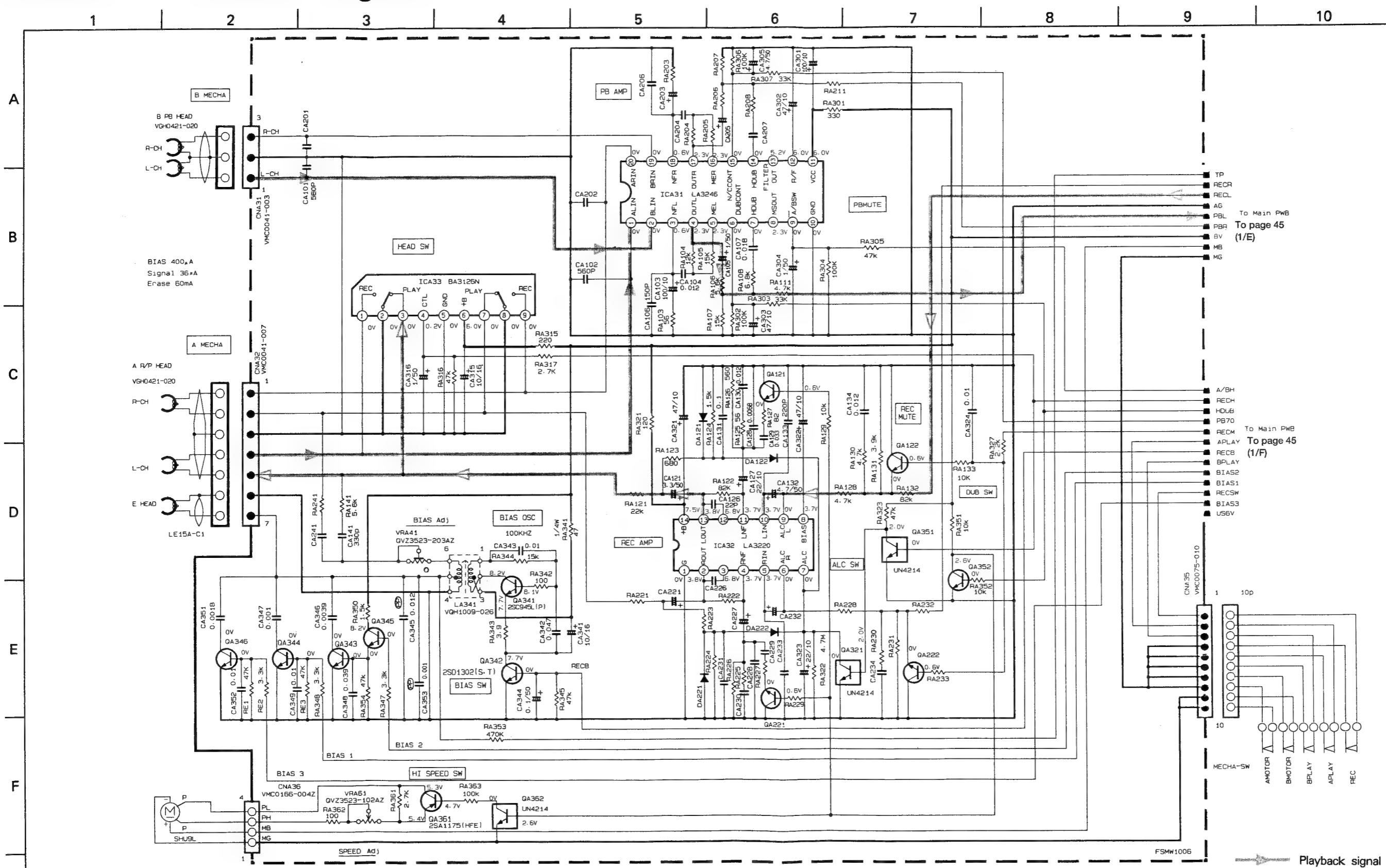


# Wiring Connections



# Standard Schematic Diagram

■ Pre-Amplifier Circuit: Drawing No. FSDH7001-006RW



1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER  
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION TAPE MODE A MECHA PB.

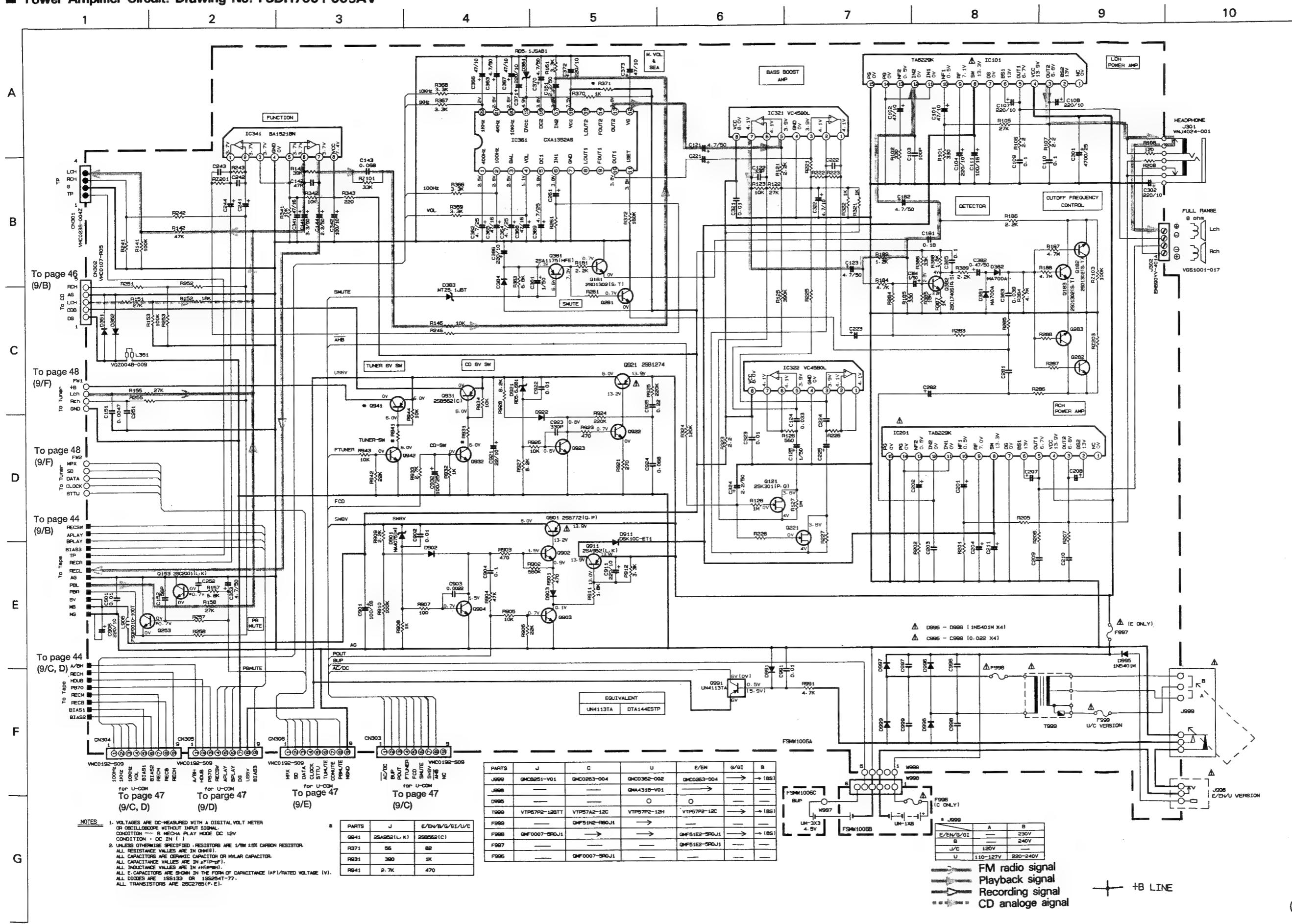
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN  $\mu$ F(P=DF).  
ALL INDUCTANCE VALUES ARE IN  $\mu$ H(m=mH).  
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE ( $\mu$ F)/RATED VOLTAGE (V).  
ALL DIODES ARE MA165.  
ALL TRANSISTORS ARE 2SC2785(E, F).

	R1	R2	
UN4213	47k	47k	DTC
UN4214	10k	47k	DTC

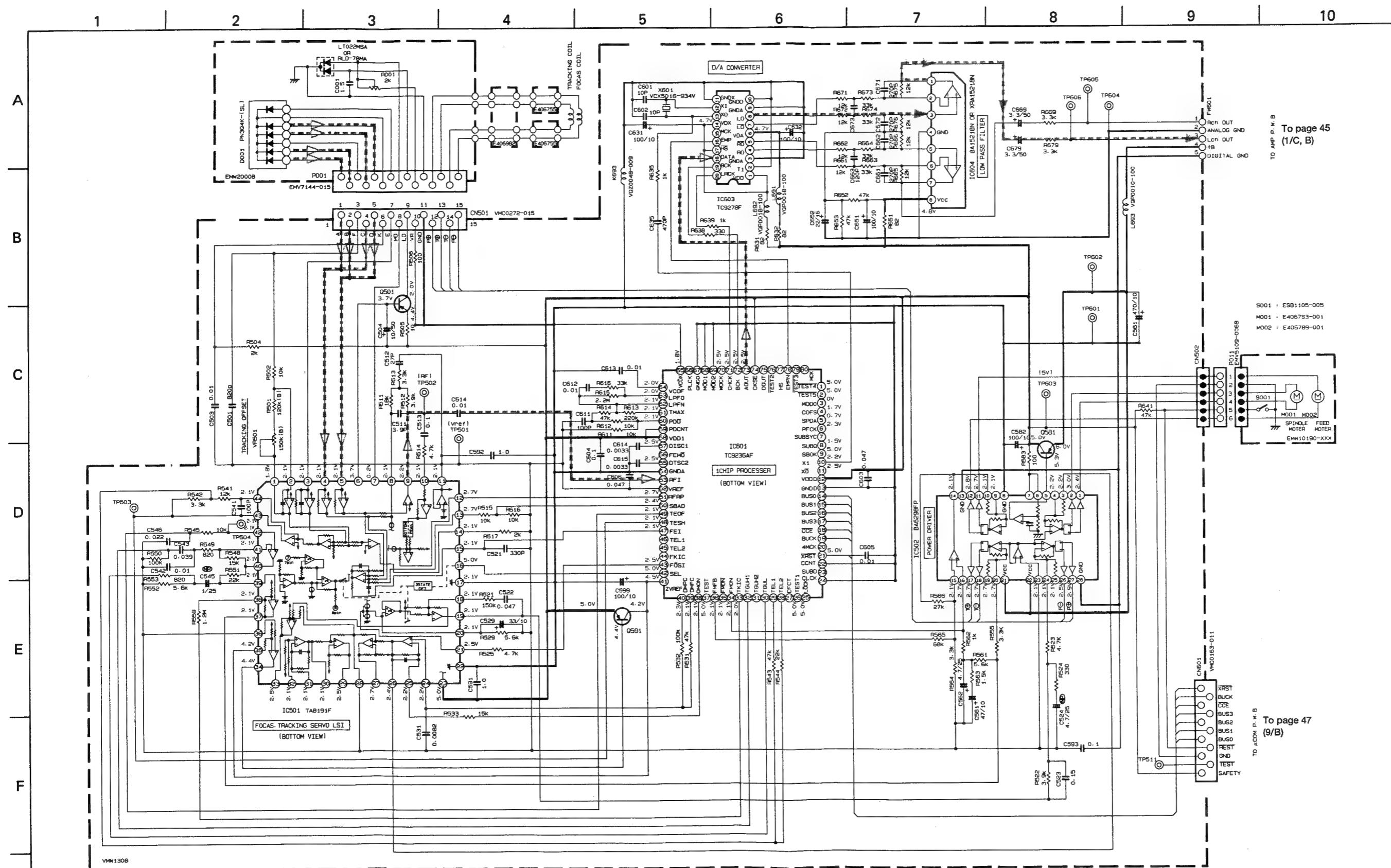


44 (No. 1892)

## ■ Power Amplifier Circuit: Drawing No. FSDH7001-005AV



■ CD Amplifier Circuit: Drawing No. FSDH7001-006CV

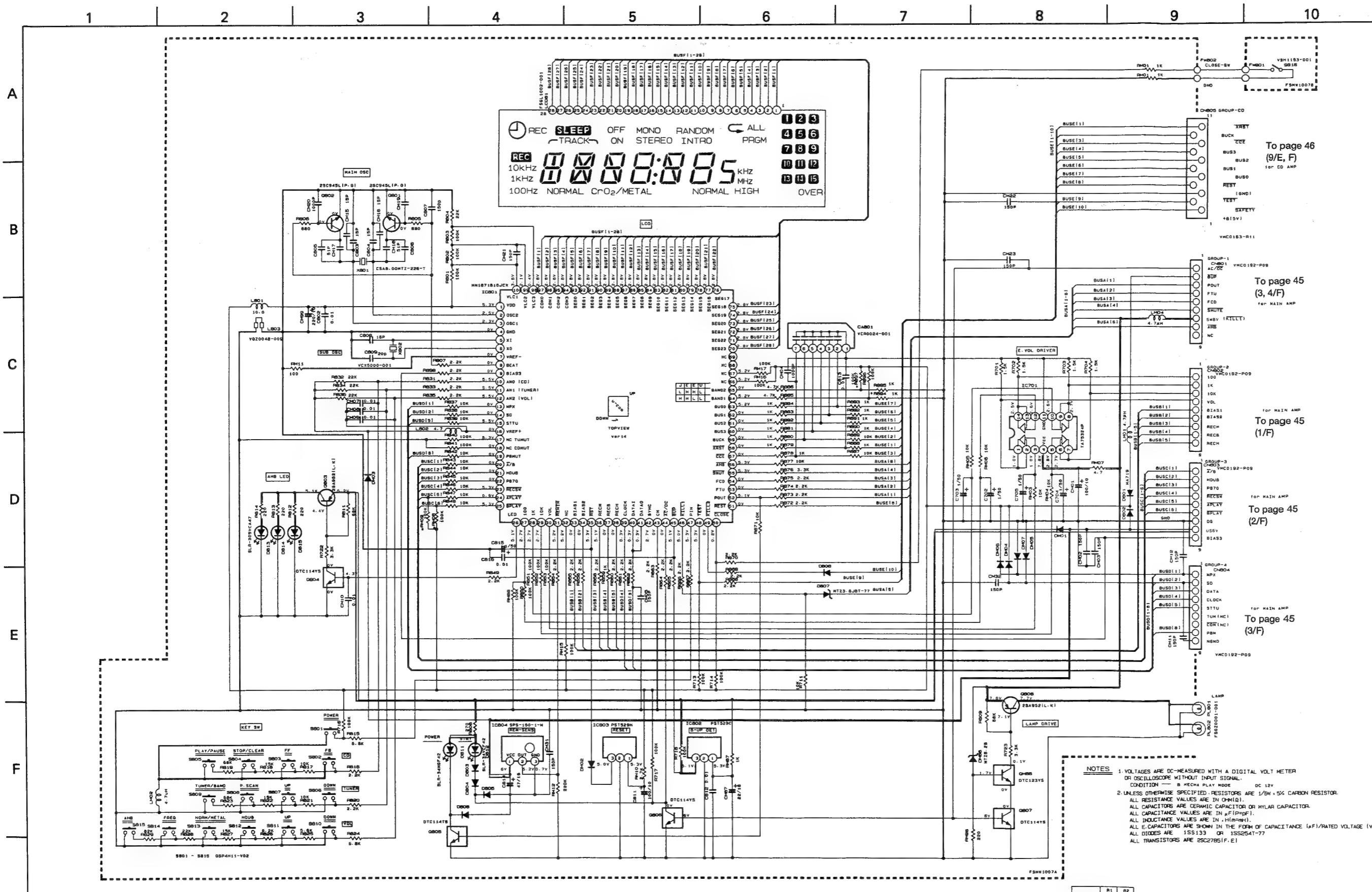


Q501 2SA952(L-K)  
Q581  
Q591 2SA1309(R-S) OR 2SA1175(HFE) OR 2SA933(S)RS1

46 (No. 1892)

- > CD digital signal
- > CD analog signal
- + LINE

## ■ System Micro Computer Circuit: Drawing No. FSDH7001-006SV



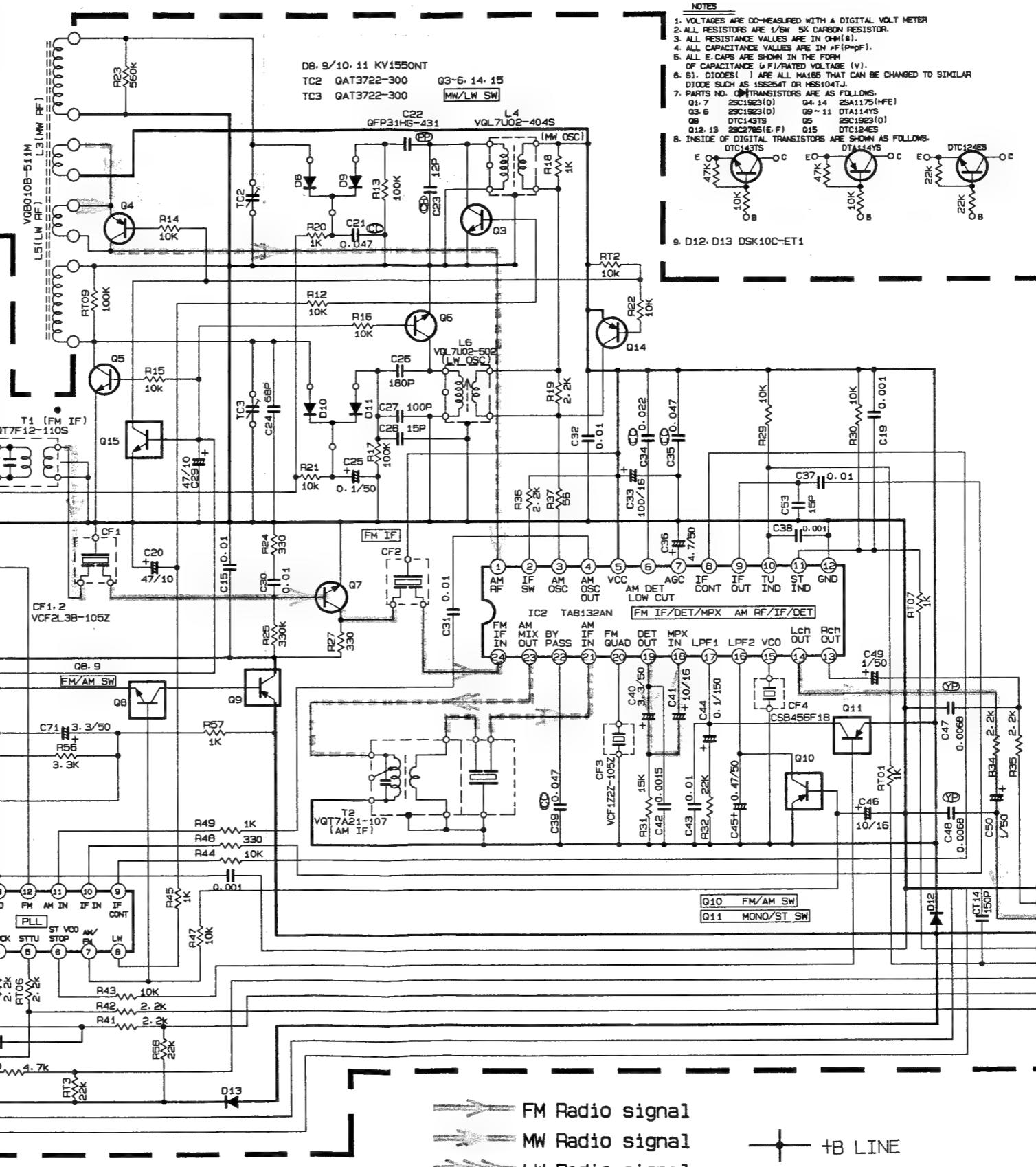
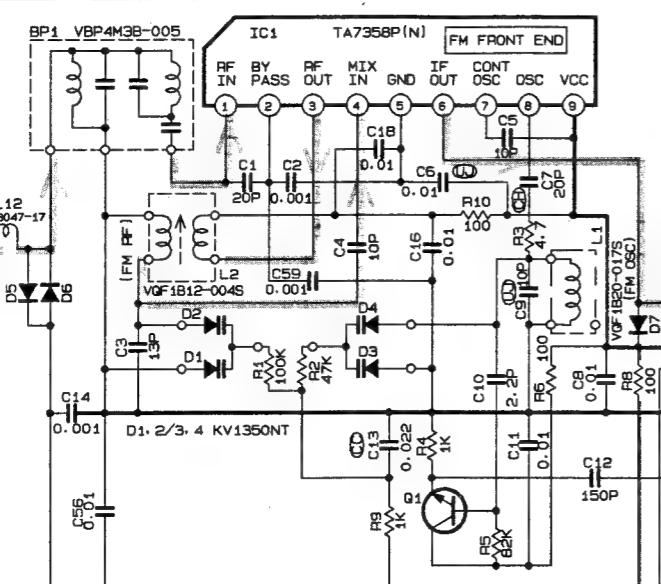
DTC114Y5	R1	R2
DTC114Y5	10K	-
DTC114Y5	10K	47K
DTC123VS	2-2K	10K

TB LINE

## ■ Tuner Circuit: Drawing No. FSDH7001-005TW

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
IC1	FH NO SIGNAL	0.8-1.5	5.5-1.5	0.5-5.5	4.7-5.5	5.5																			
	FM NO SIGNAL	5.6-5.6	5.6-5.6	5.6-5.6	5.0-0.5	0.5-5.6	5.6-5.6	0-1.0	1.0-5.1	5.3-5.6	0.6-1.0	4.7-5.6	5.4-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6		
IC2	FH 600B STEREO	5.6-5.6	5.6-5.6	5.6-5.6	4.9-1.1	0.5-6.0	0-0.1	0.1-0.1	0.1-4.9	4.7-7.0	0.6-1.2	4.7-5.6	5.8-5.4	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	
IC3	AM NO SIGNAL	5.6-5.6	5.6-5.6	5.2-5.6	5.0-0.2	0.5-5.6	5.6-0.1	0.1-0.1	0.1-5.1	5.6-5.6	0.6-1.3	5.0-5.6	4.9-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	5.6-5.6	
	FH NO SIGNAL	2.6-2.6	0.5-5.5	0.5-4.5	4.2-7	0-0	0-0.1	0-0.1	0-0.5																
	TR NO	Q1	Q7	Q8	Q9	Q10	Q11	Q12	Q13																
	PIN NO	E C B E C C B E C B E C B E C B E C B E C B E C B E C B E C B																							
	FM 87.5MHz NO SIGNAL	2.5-5.3	3.3	0.5-6.0	0.7-0	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	0.5-6.3	
	AM 522kHz NO SIGNAL	0-0	0-0	0-0	0-0	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	0-0.3	
	TR NO	Q2	Q3	Q4	Q5	Q6	Q14	Q15																	
	PIN NO	E C B E C C B E C B E C B E C B E C B E C B E C B E C B E C B																							
	AM 522kHz NO SIGNAL	0-0	0-0.6	5.6-5.6	4.9-0	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	0-0.6	
	AM 144kHz NO SIGNAL	0-0	0-0.6	5.6-5.6	5.2-0	0-0	0-0	0-0	0-0.6	5.6-5.6	5.2-0	0-0.2	0												

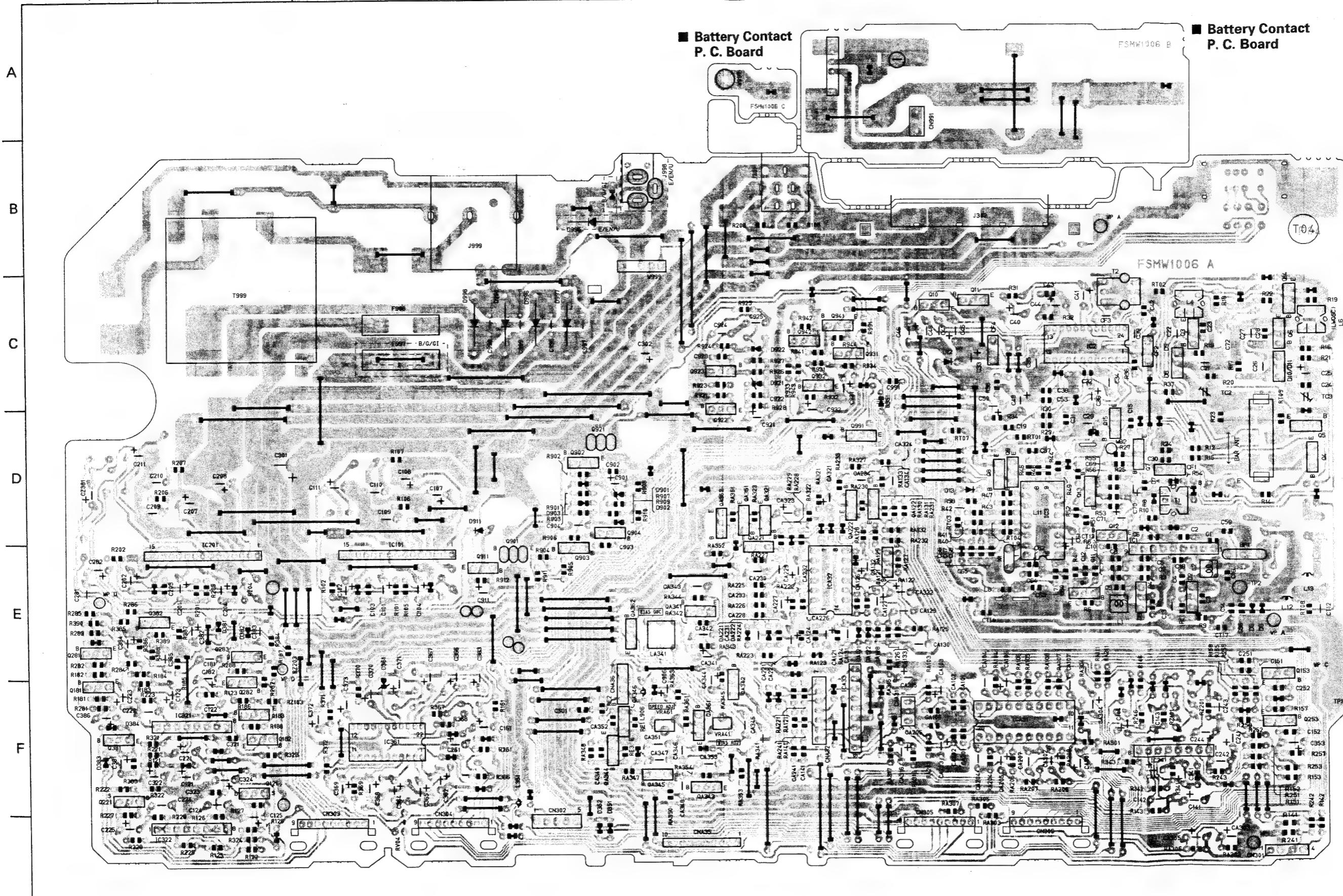


VMW 1287A

# Location of P.C. Board Parts

■ Main P.C. board: Drawing No. FSMW1006 / Block No. 01

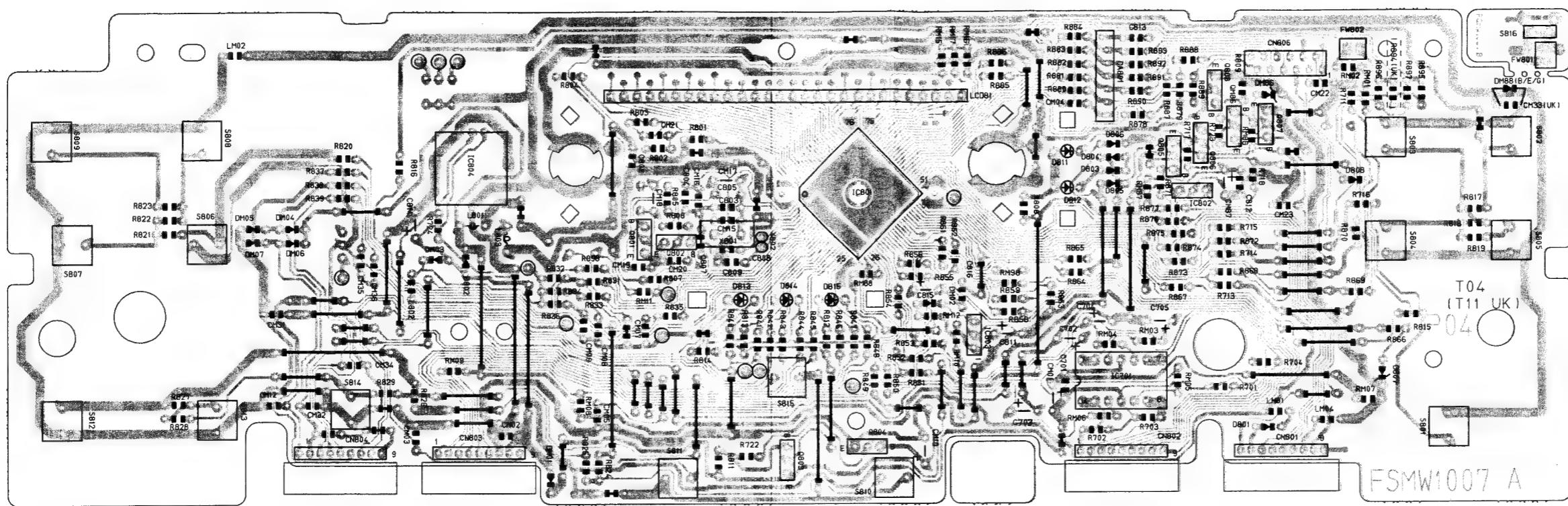
1 2 3 4 5 6 7 8 9 10



1 2 3 4 5 6 7 8 9 10

■ System Micro Computer P.C. board: Drawing No. FSMW1007 / Block No. 0 3

A



B

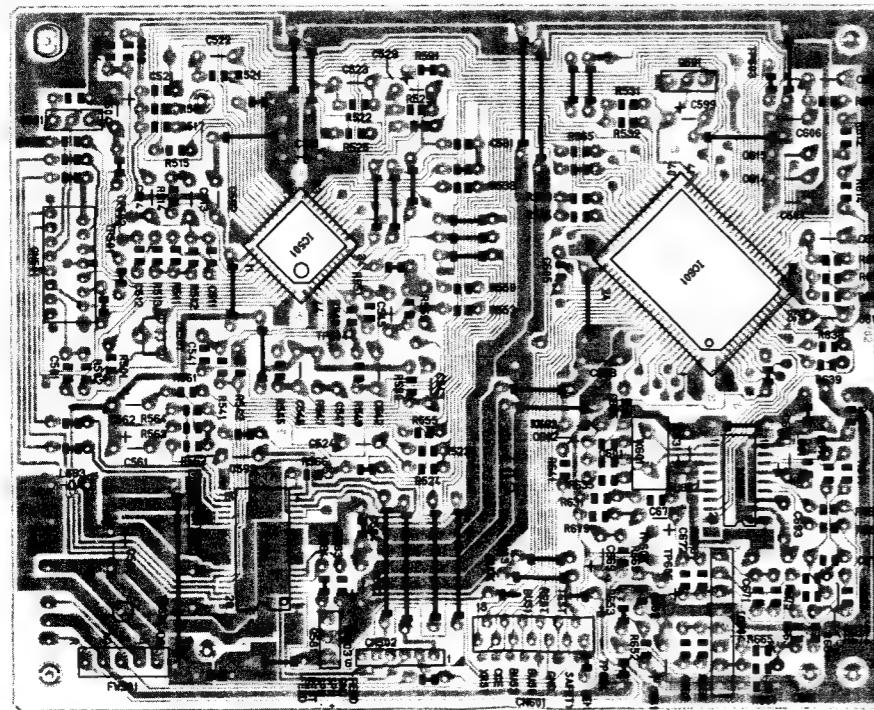
C

D

E

F

■ CD Amplifier P.C. board:  
Drawing No. VMW1308-P02 / Block No. 0 2



# Electrical Parts List

## ■ Main P.C. board

BLOCK NO. 01111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
A BP_01	VBP4M3B-005	BP FILTER	BPF	
C 001	QCT30CH-200Y	C.CAPACITOR	20PF 5% 50V	
C 002	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 003	QCSB1HJ-130Y	C.CAPACITOR	13PF 5% 50V	
C 004	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V	
C 005	QCT30UJ-100Y	C.CAPACITOR	10PF 5% 50V	
C 006	QCUB1CN-103Y	C.CAPACITOR	1010MF 30% 16V	
C 007	QCT30CH-200Y	C.CAPACITOR	20PF 5% 50V	
C 008	QCUB1CN-103Y	C.CAPACITOR	1010MF 30% 16V	
C 009	QCT30UJ-100Y	C.CAPACITOR	10PF 5% 50V	
A C 010	QCBS1HK-2R2Y	C.CAPACITOR	2-2PF 10% 50V	
C 011	QCUB1CN-103Y	C.CAPACITOR	1010MF 30% 16V	
C 012	QCBB1HK-131Y	C.CAPACITOR	150PF 10% 50V	
C 013	QCC11EM-223V	C.CAPACITOR	202MF 20% 25V	
C 014	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 015	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 016	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 018	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 019	QCBB1HK-102Y	E.CAPACITOR	1000PF 10% 50V	
C 020	QE1C1EM-4.76Z	E.CAPACITOR	4.7MF 20% 10V	
C 021	QCC11EM-473V	C.CAPACITOR	-047MF 20% 25V	
C 022	QFB31HG-4312M	PS CAPACITOR	430PF 2% 50V	
C 023	QCT30CH-100Y	C.CAPACITOR	12PF 5% 50V	
C 024	QCBS1HJ-680Y	C.CAPACITOR	68PF 5% 50V	
C 025	QE1C1HM-102Z	E.CAPACITOR	-10MF 20% 50V	
C 026	QCS11HJ-181	C.CAPACITOR	180PF 5% 50V	
C 027	QCUB1CN-103Y	C.CAPACITOR	100PF 5% 50V	
C 028	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
C 029	QE1C1EM-4.76Z	E.CAPACITOR	4.7MF 20% 10V	
C 030	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 031	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 032	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 033	QE1C1CM-107	E.CAPACITOR	100MF 20% 16V	
C 034	QCC11EM-223V	C.CAPACITOR	-022MF 20% 25V	
C 035	QCC11EM-473V	C.CAPACITOR	-047MF 20% 25V	
C 036	QE1C1HM-4.75Z	E.CAPACITOR	-4.7MF 20% 50V	
C 037	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 038	QCBB1HK-102Y	C.CAPACITOR	-010MF 30% 16V	
C 039	QCC11EM-473V	C.CAPACITOR	-047MF 20% 25V	
C 040	QE1C1HM-335Z	E.CAPACITOR	3.3MF 20% 50V	
C 041	QE1C1CM-106Z	E.CAPACITOR	10MF 20% 16V	
C 042	QCXB1CM-152Y	C.CAPACITOR	1500PF 20% 16V	
C 043	QCVB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 044	QE1C1HM-104Z	E.CAPACITOR	-10MF 20% 50V	
C 045	QE1C1HM-4.74Z	E.CAPACITOR	-4.7MF 20% 50V	
C 046	QE1C1CM-106Z	E.CAPACITOR	10MF 20% 16V	
C 047	QCZ31HK-682Z	C.CAPACITOR	6800PF 10% 50V	
C 048	QCZ31HK-682Z	C.CAPACITOR	6800PF 10% 50V	
C 049	QE1C1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 050	QE1C1HM-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 053	QCT30CH-150Y	C.CAPACITOR	15PF 5% 50V	
C 056	QCUB1CN-103Y	C.CAPACITOR	-010MF 30% 16V	
C 059	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 060	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 061	QE1C1CM-107	E.CAPACITOR	100MF 20% 16V	

BLOCK NO. 01111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REMARKS	PARTS NAME	PARTS NO.	SUFFIX	REMARKS
C 062	GCS11HJ-100	C.CAPACITOR	10PF 5% 50V			C 063	GCVB1CN-103Y	C.CAPACITOR	-010MF 30% 16V
C 064	GCSB1HJ-270Y	C.CAPACITOR	27PF 5% 50V			C 066	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V
C 067	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V			C 068	QCXB1CM-222Y	C.CAPACITOR	100PF 10% 50V
C 069	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V			C 070	GETC1HM-2252N	E.CAPACITOR	2.2MF 20% 50V
C 071	GETC1HM-2252N	E.CAPACITOR	3.3MF 20% 50V			C 072	GETC1AM-4.76Z	E.CAPACITOR	3.3MF 20% 50V
C 073	GETC1AM-4.76Z	E.CAPACITOR	4.7MF 20% 10V			C 074	GETC1AM-2272	E.CAPACITOR	4.7MF 20% 10V
C 075	GETC1AM-2272	E.CAPACITOR	100PF 10% 50V			C 076	GETC1AM-2272	E.CAPACITOR	100PF 10% 50V
C 077	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 078	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 079	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 080	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 081	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 082	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 083	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 084	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 085	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 086	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 087	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 088	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 089	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 090	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 091	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 092	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 093	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 094	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 095	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 096	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 097	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 098	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 099	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 100	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 101	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 102	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 103	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 104	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 105	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 106	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 107	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 108	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V
C 109	GETC1AM-2272	E.CAPACITOR	220MF 20% 10V			C 110	GCC11EM-104V	M.CAPACITOR	-10MF 20% 25V
C 111	QC1C1CM-107	E.CAPACITOR	100MF 20% 16V			C 112	GETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V
C 113	GETC1HM-475Z	E.CAPACITOR	3.3MF 5% 50V			C 114	QKS11HJ-350	C.CAPACITOR	3.3MF 5% 50V
C 115	QKS11HJ-350	C.CAPACITOR	3.3MF 5% 50V			C 116	QES61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 117	QKS11HJ-350	C.CAPACITOR	3.3MF 5% 50V			C 118	QES61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 119	QKS11HJ-350	C.CAPACITOR	3.3MF 5% 50V			C 120	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 121	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 122	QKS11HJ-350	C.CAPACITOR	3.3MF 5% 50V
C 123	QKS11HJ-350	C.CAPACITOR	3.3MF 5% 50V			C 124	QNM31HJ-353Z	H.CAPACITOR	0.33MF 5% 50V
C 125	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 126	QK61HM-105Z	E.CAPACITOR	1.0MF 20% 50V
C 127	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 128	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 129	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 130	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 131	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 132	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 133	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 134	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 135	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 136	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 137	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 138	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 139	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 140	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 141	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V			C 142	QK61HM-105Z	E.CAPACITOR	3.3MF 5% 50V
C 143	QF1C1HM-683	N.CAPACITOR	0.68MF 5% 50V			C 144	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 145	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 146	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 147	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 148	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 149	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 150	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 151	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 152	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 153	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 154	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 155	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 156	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 157	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 158	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 159	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 160	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 161	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 162	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 163	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 164	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 165	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 166	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 167	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 168	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 169	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 170	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 171	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 172	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 173	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 174	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 175	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 176	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 177	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 178	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 179	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 180	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 181	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 182	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 183	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 184	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 185	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 186	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 187	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V			C 188	QF1C1HM-2252N	E.CAPACITOR	2.2MF 20% 16V
C 189	QF								

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CA129	QFIC1HJ-3332M	TF CAPACITOR	.033MF 5% 50V	
	CA130	QFN31HJ-1232	M. CAPACITOR	.012MF 5% 50V	
	CA131	QFLC1HJ-1024M	M. CAPACITOR	.10MF 5% 50V	
	CA132	QETC1HJM-4752	E. CAPACITOR	4.7MF 20% 50V	
	CA133	QCBB1HK-221Y	C. CAPACITOR	2.20PF 10% 50V	
	CA134	QF131HJ-1232	M. CAPACITOR	.012MF 5% 50V	
	CA135	QCBB1HK-331Y	C. CAPACITOR	.330PF 10% 50V	
	CA144	QCBB1HK-561Y	C. CAPACITOR	.560PF 10% 50V	
	CA201	QCBB1HK-561Y	C. CAPACITOR	.560PF 10% 50V	
	CA202	QCBB1HK-561Y	C. CAPACITOR	.560PF 10% 50V	
	CA203	QEKG1HJ-1072Z	E. CAPACITOR	1.00MF 20% 10V	
	CA204	QFN31HJ-1232	M. CAPACITOR	.012MF 5% 50V	
	CA205	QEKG1HM-1052	E. CAPACITOR	1.0MF 20% 50V	
	CA206	QCBB1HK-151Y	C. CAPACITOR	1.50PF 10% 50V	
	CA207	QFLC1HJ-1832M	TF. CAPACITOR	.018MF 5% 50V	
	CA221	QETC1HJM-3352	E. CAPACITOR	.3-3MF 20% 50V	
	CA226	QCSB1HJ-220Y	C. CAPACITOR	22PF 5% 50V	
	CA227	QETC1IAM-2262N	E. CAPACITOR	22MF 20% 10V	
	CA228	QCXBACM-682Y	C. CAPACITOR	6.800PF 20% 16V	
	CA229	QFLC1HJ-3332M	TF. CAPACITOR	.033MF 5% 50V	
	CA230	QFN31HJ-1232	M. CAPACITOR	.012MF 5% 50V	
	CA231	QFLC1HJ-1072M	M. CAPACITOR	.10MF 5% 50V	
	CA232	QETC1HJM-4752	E. CAPACITOR	4.7MF 20% 50V	
	CA233	QCBB1HK-221Y	C. CAPACITOR	2.20PF 10% 50V	
	CA234	QFN31HJ-1232	M. CAPACITOR	.012MF 5% 50V	
	CA241	QCBB1HK-331Y	C. CAPACITOR	3.30PF 10% 50V	
	CA301	QEKG1AM-1072	E. CAPACITOR	1.00MF 20% 10V	
	CA302	QEKG1CM-476	E. CAPACITOR	4.7MF 20% 16V	
	CA303	QETC1AM-4762	E. CAPACITOR	4.7MF 20% 10V	
	CA304	QETC1HM-4752	E. CAPACITOR	4.7MF 20% 50V	
	CA305	QEKG1HM-4752M	E. CAPACITOR	4.7MF 20% 50V	
	CA313	QETC1CM-1062	E. CAPACITOR	1.0MF 20% 16V	
	CA316	QEKG1HM-1062	E. CAPACITOR	1.0MF 20% 50V	
	CA321	QETC1AM-4762	E. CAPACITOR	4.7MF 20% 10V	
	CA322	QEKG1AM-4762	E. CAPACITOR	4.7MF 20% 10V	
	CA323	QETC1AM-4752M	E. CAPACITOR	4.7MF 20% 50V	
	CA324	QETC1CN-2262N	E. CAPACITOR	2.2MF 20% 10V	
	CA329	QCVC1BN-133Y	C. CAPACITOR	.01OMF 30% 16V	
	CA341	QETC1CM-1062	E. CAPACITOR	1.0MF 20% 16V	
	CA342	QFLC1HJ-4732M	TF. CAPACITOR	.047MF 5% 50V	
	CA343	QFN31HJ-1034	M. CAPACITOR	.010MF 5% 50V	
	CA344	QETC1HM-1042Z	E. CAPACITOR	.10MF 20% 50V	
	CA345	QFP32A-1232M	PP. CAPACITOR	.012MF 5% 100V	
	CA346	QFN41HJ-222	M. CAPACITOR	.2200PF 5% 50V	
	CA347	QFP31H-1022M	PP. CAPACITOR	1.000PF 5% 50V	
	CA348	QCCL31EM-3932V	C. CAPACITOR	.039MF 20% 25V	
	CA349	QCVB1CN-103Y	C. CAPACITOR	.010MF 30% 16V	
	CA351	QFP31H-1522	PP. CAPACITOR	1.500PF 5% 50V	
	CA352	QCVC1CN-103Y	C. CAPACITOR	.010MF 30% 16V	
	CF 01	VCF2L3B-105	C FILTER		
	CF 02	VCF2L3B-105	C FILTER		
	CF 03	VCF2L3B-105Z	C FILTER		
	CF 04	CSB456718	CERA LOCK		
	CNA31	VMC0040-003	CONNECTOR		
	CNA32	VMC0040-007	CONNECTOR		
	CNA33	VMC0072-010	CONNECTOR		
	CNA36	VMC166-0042	CONNECTOR		

LOCK NO. 011111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 301	QETB1EM-47BE	E.CAPACITOR	4700MF 20% 25V		
C 302	QETC1AM-2272	E.CAPACITOR	220MF 20% 10V		
C 321	QCVB1CM-103Y	E.CAPACITOR	.010MF 20% 16V		
C 322	QETC1AM-476Z	E.CAPACITOR	47MF 20% 10V		
C 323	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V		
C 324	QEKG1HM-2252M	E.CAPACITOR	2.2MF 20% 50V		
C 341	QEKG1CM-476Z	E.CAPACITOR	47MF 20% 16V		
C 353	QETC1AM-4752	E.CAPACITOR	100MF 20% 10V		
C 362	QEKG1HM-4752	E.CAPACITOR	4.7MF 20% 50V		
C 363	QETCH1M-4752	E.CAPACITOR	4.7MF 20% 50V		
C 364	QEKG1EM-4752	E.CAPACITOR	4.7MF 20% 25V		
C 365	QEKG1CM-4766	E.CAPACITOR	4.7MF 20% 16V		
C 366	QETC1AM-4762	E.CAPACITOR	4.7MF 20% 10V		
C 367	QETC1AM-4762	E.CAPACITOR	4.7MF 20% 10V		
C 368	QEKG1CM-476	E.CAPACITOR	47MF 20% 16V		
C 369	QEKG1EM-4752	E.CAPACITOR	4.7MF 20% 50V		
C 370	QETC1HM-4752	E.CAPACITOR	4.7MF 20% 50V		
C 371	QETC1AM-2272	E.CAPACITOR	220MF 20% 10V		
C 372	QETC1AM-2272	E.CAPACITOR	220MF 20% 10V		
C 373	QETC1AM-4752	E.CAPACITOR	47MF 20% 10V		
C 381	QETC1AM-105Z	E.CAPACITOR	1.0MF 20% 50V		
C 382	QETC1HM-4742	E.CAPACITOR	4.7MF 20% 50V		
C 383	QFV1HM-3932M	E.CAPACITOR	.039MF 5% 50V		
C 384	QFV1HM-105Z	E.CAPACITOR	1.0MF 20% 50V		
C 385	QFV1HM-1042N	TF CAPACITOR	.10MF 5% 50V		
C 386	QETC1AM-2272	E.CAPACITOR	220MF 20% 10V		
C 901	QETC1AM-107	E.CAPACITOR	200MF 20% 16V		
C 902	QCVB1CN-103Y	E.CAPACITOR	.010MF 30% 16V		
C 903	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V		
C 904	QCC1EM-104Y	E.CAPACITOR	.10MF 20% 25V		
C 906	QETC1AM-2272	E.CAPACITOR	220MF 20% 10V		
C 911	QETC1AM-2272	E.CAPACITOR	220MF 20% 10V		
C 921	QETC1AM-2262N	E.CAPACITOR	22MF 20% 10V		
C 922	QCVB1HN-103Y	E.CAPACITOR	.010MF 30% 16V		
C 923	QCBB1HK-333Y	C.CAPACITOR	330PF 10% 50V		
C 924	QFV1HJ-6832M	TF CAPACITOR	.068MF 5% 50V		
C 925	QFV1HJ-224	TF CAPACITOR	.22MF 5% 50V		
C 932	QETC1AM-107Z	E.CAPACITOR	100MF 20% 25V		
C 991	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V		
C 996	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V		
C 997	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V		
C 998	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V		
C 999	QFV41HJ-224	TF CAPACITOR	.22MF 5% 50V		
CA101	QCBB1HK-561Y	C.CAPACITOR	.560PF 10% 50V		
CA103	QEKG1AM-107Z	E.CAPACITOR	100MF 20% 10V		
CA104	QFN31HJ-1232	M.CAPACITOR	.012MF 5% 50V		
CA105	QEKG1HM-151Y	E.CAPACITOR	1.0MF 20% 50V		
CA106	QCBB1HK-151Y	C.CAPACITOR	.150PF 10% 50V		
CA107	QELC1HJ-1832M	TF.CAPACITOR	.018MF 5% 50V		
CA121	QETC1HM-335Z	E.CAPACITOR	3.3MF 20% 50V		
CA126	QCBS1HM-220Y	C.CAPACITOR	22PF 5% 50V		
CA127	QETC1AM-2262N	E.CAPACITOR	22MF 20% 10V		
CA128	QCXB1CM-682Y	C.CAPACITOR	6800PF 20% 16V		

BLOCK NO. 01111111

A REF.	PARTS NO.	PARTS NAME	TEST-POINT	SUFFIX	REMARKS
CN301	VMC0238-0042	CONNECTOR 1/M	TO CD		
CN302	VMC0107-R05	CONNECTOR	TO U-COM		
CN303	VMC0192-S09	CONNECTOR	TO U-COM		
CN304	VMC0192-S09	CONNECTOR	TO U-COM		
CN305	VMC0192-S09	CONNECTOR	TO U-COM		
CS 01	QCB1CN-103Y	CONNECTOR 1/M	-0.10MF 30X 16V		
CT012	QCB1EN-223V	C.CAPACITOR	0.022MF 20X 25V		
CT014	QCBB1H-151Y	C.CAPACITOR	150PF 10X 50V		
CT017	QCBB1K-151Y	C.CAPACITOR	150PF 10X 50V		
D 001	KV1350NT	V.CAPACITOR			
D 002	KV1350NT	V.CAPACITOR			
D 003	KV1350NT	V.CAPACITOR			
D 004	KV1350NT	V.CAPACITOR			
D 005	ISS133	DIODE 1/M			
D 006	ISS133	DIODE 1/M			
D 007	ISS133	DIODE 1/M			
D 008	KV1550NTA	V.CAPACITOR			
D 009	KV1550NTA	V.CAPACITOR			
D 010	KV1550NTA	V.CAPACITOR			
D 011	KV1550NTA	V.CAPACITOR			
D 012	DSK10C-E	SI DIODE			
D 013	DSK10C-E	SI DIODE			
D 351	ISS133	DIODE 1/M			
D 352	ISS133	DIODE 1/M			
D 361	RDS.1USAB1	Z-DIODE 1/M			
D 381	MAT00A	DIODE 1/M			
D 382	MAT00A	DIODE 1/M			
D 383	MTZ5.1JB	DIODE 1/M			
D 384	ISS133	DIODE 1/M			
D 901	MA4075(M)	DIODE 1/M			
D 902	ISS133	DIODE 1/M			
D 903	ISS133	DIODE 1/M			
D 911	DSK10C-E	SI DIODE			
D 921	RDS.6USAB1	Z DIODE 1 M			
D 922	ISS133	DIODE 1/M			
D 991	ISS133	DIODE 1/M			
D 995	1N5401M	DIODE			
D 996	1N5401M	DIODE			
A D 997	1N5401M	DIODE			
A D 998	1N5401M	DIODE			
A D 999	1N5401M	DIODE			
A DA121	ISS133	DIODE 1/M			
DA122	ISS133	DIODE 1/M			
DA221	ISS133	DIODE 1/M			
IC 01	TAT358P(N)	I.C.			
IC 02	TAB132AN	I.C.			
IC 03	TG9216P	I.C.			
ICA31	LA3246	I.C.			
ICA32	LA3220	I.C.			
ICA33	BA3126N	I.C.			
IC101	TAB229K	IC			
IC201	TAB229K	IC			

A REF.	PARTS NO.	PARTS NAME	TEST-POINT	SUFFIX	REMARKS	SURFIX	BLOCK NO. 01111111
IC321	NJM4580L			I-C			
IC322	NJM4580L			I-C			
IC341	BA15218N			I-C.			
IC361	CXA135FAS			I-C.			
J 301	VMJ4026-001	JACK					
J 302	EMB90V-401A	SPK TERMINAL					
J 998	QMA431B-V01	DC JACK					
J 999	QMC0263-004	AC SOCKET					
A L 001	VQF1B20-017	OSC COIL					
A L 002	VQF1B2-004	RF COIL					
L 003	VQBO10B-511	BAR ANTENA					
L 004	VQM7U02-404	OSC COIL					
L 006	VQL7U02-502	OSC COIL (LM)					
L 007	VQP025K-4R7Y	INDUCTOR 1/M					
L 008	VQP0018-221	INDUCTOR					
A L 012	V03047-17	INDUCTOR					
L 351	VQ2004-009	INDUCTOR 1/M					
L 906	VQP0010-100	INDUCTOR					
LA341	VGH1009-026	OSC COIL					
Q 001	2SC1923(0)	TRANSISTOR 1/M					
Q 003	2SC1923(0)	TRANSISTOR 1/M					
Q 004	2SA1175	TRANSISTOR 1/M					
Q 005	2SC1923(0)	TRANSISTOR 1/M					
Q 006	2SC1923(0)	TRANSISTOR 1/M					
Q 007	2SC1923(0)	TRANSISTOR 1/M					
Q 008	DTC114YS	TRANSISTOR 1/M					
Q 009	DTA114YS	TRANSISTOR 1/M					
Q 010	DTA114/S	TRANSISTOR 1/M					
Q 011	DTA114/S	TRANSISTOR 1/M					
Q 012	2SC2785(HFE)	TRANSISTOR 1/M					
Q 013	2SC2785(HFE)	TRANSISTOR 1/M					
Q 014	2SA1175	TRANSISTOR 1/M					
Q 015	DTC124ES	TRANSISTOR 1/M					
Q 121	2SK301(P,Q)	FET 1/M					
Q 153	2SC2001(L,K)	TRANSISTOR 1/M					
Q 181	2SD1302(S,T)	TRANSISTOR 1/M					
Q 183	2SD1302(S,T)	TRANSISTOR 1/M					
Q 221	2SK301(P,Q)	FET 1/M					
Q 253	2SC2001(L,K)	TRANSISTOR 1/M					
Q 281	2SD1302(S,T)	TRANSISTOR 1/M					
Q 282	2SD1302(S,T)	TRANSISTOR 1/M					
Q 381	2SA1175	TRANSISTOR 1/M					
Q 382	2SC1740S(R,S)	TRANSISTOR 1/M					
Q 901	2SB772(Q,P)	TRANSISTOR 1/M					
Q 902	2SC2785(HFE)	TRANSISTOR 1/M					
Q 903	2SC2785(HFE)	TRANSISTOR 1/M					
Q 904	2SA952(L,K)	TRANSISTOR 1/M					
Q 911	2SB1375	TRANSISTOR 1/M					
Q 921	2SC2785(HFE)	TRANSISTOR 1/M					
Q 923	2SC2785(HFE)	TRANSISTOR 1/M					
Q 931	2SB562(C)	TRANSISTOR 1/M					
Q 932	2SC2785(HFE)	TRANSISTOR 1/M					

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q 941	2SB562(C)	TRANSISTOR				R 045	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W		
Q 942	2SC2785(HFE)	TRANSISTOR I/M				R 047	QRD161J-103	C-RESISTOR	10K 5% 1/6W		
Q 991	DTA144ES	TRANSISTOR I/M				R 048	QRD161J-331Y	C-RESISTOR	330 5% 1/6W		
QA121	2SC2785(HFE)	HDUB EQ				R 049	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W		
QA122	2SC2785(HFE)	TRANSISTOR I/M	REC MUTE			R 051	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W		
QA221	2SC2785(HFE)	TRANSISTOR I/M				R 052	QRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W		
QA222	2SC2785(HFE)	TRANSISTOR I/M	REC MUTE			R 053	QRD161J-471	C-RESISTOR	4.7K 5% 1/6W		
QA321	DT114YS	TRANSISTOR I/M	REC MUTE			R 054	QRD161J-222	C-RESISTOR	4.70 5% 1/6W		
QA341	2SC945L(P,Q)	TRANSISTOR I/M	ALC SW			R 055	QRD167J-222	C-RESISTOR	2.2K 5% 1/6W		
QA342	2SC22001(L,K)	TRANSISTOR I/M				R 056	QRD167J-332	C-RESISTOR	2.2K 5% 1/6W		
QA343	2SC2785(HFE)	TRANSISTOR I/M				R 057	QRD161J-102	C-RESISTOR	3.3K 5% 1/6W		
QA344	2SC2785(HFE)	TRANSISTOR I/M				R 058	QRD161J-223	C-RESISTOR	2.2K 5% 1/6W		
QA345	2SC2785(HFE)	TRANSISTOR I/M				R 101	QRD161J-331Y	C-RESISTOR	2.2K 5% 1/6W		
QA346	2SC2785(HFE)	TRANSISTOR I/M				R 102	QRD161J-331Y	C-RESISTOR	2.2K 5% 1/6W		
QA351	DT114ES	TRANSISTOR I/M				R 105	QRD161J-273	C-RESISTOR	2.2K 5% 1/6W		
QA352	2SC2785(HFE)	TRANSISTOR I/M				R 106	QRD161J-5R2	C-RESISTOR	2.2 K 5% 1/6W		
QA361	2SA1175	TRANSISTOR I/M				R 107	QRD161J-121	C-RESISTOR	2.2 K 5% 1/6W		
QA362	DTC114YS	TRANSISTOR I/M				R 108	QRD167J-121	C-RESISTOR	2.2 K 5% 1/6W		
R 001	GRD161J-104	C-RESISTOR				R 121	QRD161J-222	C-RESISTOR	2.2 K 5% 1/6W		
R 002	GRD161J-73	C-RESISTOR				R 122	QRD161J-273	C-RESISTOR	2.2 K 5% 1/6W		
R 003	GRD167J-4R7	C-RESISTOR				R 123	GRD161J-103	C-RESISTOR	2.7K 5% 1/6W		
R 004	GRD161J-102	C-RESISTOR				R 125	GRD161J-394	C-RESISTOR	390K 5% 1/6W		
R 005	GRD161J-823	C-RESISTOR				R 126	GRD161J-561	C-RESISTOR	560 5% 1/6W		
R 006	GRD161J-101	C-RESISTOR				R 127	GRD161J-105	C-RESISTOR	1.0M 5% 1/6W		
R 008	GRD161J-101	C-RESISTOR				R 128	GRD161J-105	C-RESISTOR	1.0M 5% 1/6W		
R 009	GRD161J-10	C-RESISTOR				R 141	GRD161J-104	C-RESISTOR	100K 5% 1/6W		
R 010	GRD161J-101	C-RESISTOR				R 142	GRD161J-473	C-RESISTOR	47K 5% 1/6W		
R 012	GRD161J-103	C-RESISTOR				R 143	GRD161J-393	C-RESISTOR	39K 5% 1/6W		
R 013	GRD161J-104	C-RESISTOR				R 146	GRD161J-103	C-RESISTOR	10K 5% 1/6W		
R 014	GRD161J-103	C-RESISTOR				R 151	GRD161J-223	C-RESISTOR	27K 5% 1/6W		
R 015	GRD161J-103	C-RESISTOR				R 152	GRD161J-183	C-RESISTOR	18K 5% 1/6W		
R 016	GRD161J-103	C-RESISTOR				R 153	GRD161J-104	C-RESISTOR	100K 5% 1/6W		
R 017	GRD161J-104	C-RESISTOR				R 155	GRD161J-273	C-RESISTOR	27K 5% 1/6W		
R 018	GRD161J-102	C-RESISTOR				R 157	GRD167J-682	C-RESISTOR	6.8K 5% 1/6W		
R 019	GRD161J-103	C-RESISTOR				R 158	GRD161J-273	C-RESISTOR	27K 5% 1/6W		
R 020	GRD161J-102	C-RESISTOR				R 161	GRD167J-332	C-RESISTOR	3.3K 5% 1/6W		
R 021	GRD161J-103	C-RESISTOR				R 181	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		
R 022	GRD161J-103	C-RESISTOR				R 183	GRD161J-422	C-RESISTOR	1.2K 5% 1/6W		
R 023	GRD161J-564	C-RESISTOR				R 184	GRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W		
R 024	GRD161J-331Y	C-RESISTOR				R 185	GRD161J-331Y	C-RESISTOR	330 5% 1/6W		
R 025	GRD161J-334	C-RESISTOR				R 186	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		
R 027	GRD161J-331Y	C-RESISTOR				R 187	GRD161J-475	C-RESISTOR	4.7M 5% 1/6W		
R 029	GRD161J-103	C-RESISTOR				R 188	GRD161J-475	C-RESISTOR	4.7M 5% 1/6W		
R 030	GRD161J-103	C-RESISTOR				R 201	GRD161J-331Y	C-RESISTOR	330 5% 1/6W		
R 031	GRD161J-103	C-RESISTOR				R 202	GRD161J-331Y	C-RESISTOR	330 5% 1/6W		
R 032	GRD161J-223	C-RESISTOR				R 205	GRD161J-273	C-RESISTOR	2.2K 5% 1/6W		
R 034	GRD161J-222	C-RESISTOR				R 206	GRD161J-2R2	C-RESISTOR	2.2 K 5% 1/6W		
R 035	GRD161J-222	C-RESISTOR				R 207	GRD161J-2R2	C-RESISTOR	2.2 K 5% 1/6W		
R 036	GRD161J-222	C-RESISTOR				R 208	GRD167J-121	C-RESISTOR	120 5% 1/6W		
R 037	GRD161J-560	C-RESISTOR				R 221	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		
R 040	GRD161J-222	C-RESISTOR				R 222	GRD161J-273	C-RESISTOR	27K 5% 1/6W		
R 041	GRD161J-222	C-RESISTOR				R 223	GRD161J-103	C-RESISTOR	10K 5% 1/6W		
R 042	GRD161J-222	C-RESISTOR				R 225	GRD161J-394	C-RESISTOR	390K 5% 1/6W		
R 043	GRD161J-103	C-RESISTOR				R 226	GRD161J-561	C-RESISTOR	560 5% 1/6W		
R 044	GRD161J-103	C-RESISTOR				R 227	GRD161J-105	C-RESISTOR	1.0M 5% 1/6W		

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
Q 941	2SB562(C)	TRANSISTOR			
Q 942	2SC2785(HFE)	TRANSISTOR I/M			
Q 991	DTA144ES	TRANSISTOR I/M			
QA121	2SC2785(HFE)	HDUB EQ			
QA122	2SC2785(HFE)	TRANSISTOR I/M	REC MUTE		
QA221	2SC2785(HFE)	TRANSISTOR I/M			
QA222	2SC2785(HFE)	TRANSISTOR I/M	REC MUTE		
QA321	DT114YS	TRANSISTOR I/M	REC MUTE		
QA341	2SC945L(P,Q)	TRANSISTOR I/M	ALC SW		
QA342	2SC22001(L,K)	TRANSISTOR I/M			
QA343	2SC2785(HFE)	TRANSISTOR I/M			
QA344	2SC2785(HFE)	TRANSISTOR I/M			
QA345	2SC2785(HFE)	TRANSISTOR I/M			
QA346	2SC2785(HFE)	TRANSISTOR I/M			
QA351	DT114ES	TRANSISTOR I/M			
QA352	2SC2785(HFE)	TRANSISTOR I/M			
QA361	2SA1175	TRANSISTOR I/M			
QA362	DTC114YS	TRANSISTOR I/M			
R 001	GRD161J-104	C-RESISTOR			
R 002	GRD161J-73	C-RESISTOR			
R 003	GRD167J-4R7	C-RESISTOR			
R 004	GRD161J-102	C-RESISTOR			
R 005	GRD161J-823	C-RESISTOR			
R 006	GRD161J-101	C-RESISTOR			
R 008	GRD161J-101	C-RESISTOR			
R 009	GRD161J-10	C-RESISTOR			
R 010	GRD161J-101	C-RESISTOR			
R 012	GRD161J-103	C-RESISTOR			
R 013	GRD161J-104	C-RESISTOR			
R 014	GRD161J-103	C-RESISTOR			
R 015	GRD161J-103	C-RESISTOR			
R 016	GRD161J-103	C-RESISTOR			
R 017	GRD161J-104	C-RESISTOR			
R 018	GRD161J-102	C-RESISTOR			
R 019	GRD161J-222	C-RESISTOR			
R 020	GRD161J-102	C-RESISTOR			
R 021	GRD161J-103	C-RESISTOR			
R 022	GRD161J-103	C-RESISTOR			
R 023	GRD161J-564	C-RESISTOR			
R 024	GRD161J-331Y	C-RESISTOR			
R 025	GRD161J-334	C-RESISTOR			
R 027	GRD161J-331Y	C-RESISTOR			
R 029	GRD161J-103	C-RESISTOR			
R 030	GRD161J-103	C-RESISTOR			
R 031	GRD161J-103	C-RESISTOR			
R 032	GRD161J-223	C-RESISTOR			
R 034	GRD161J-222	C-RESISTOR			
R 035	GRD161J-222	C-RESISTOR			
R 036	GRD161J-222	C-RESISTOR			
R 037	GRD161J-560	C-RESISTOR			
R 040	GRD161J-222	C-RESISTOR			
R 041	GRD161J-222	C-RESISTOR			
R 042	GRD161J-222	C-RESISTOR			
R 043	GRD161J-103	C-RESISTOR			
R 044	GRD161J-103	C-RESISTOR			

BLOCK NO. 01111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 228	QRD161J-105	C.RESISTOR	1.0M 5% 1/6W			R 925	QRD161J-224	C.RESISTOR	220K 5% 1/6W
R 241	QRD161J-104	C.RESISTOR	100K 5% 1/6W			R 926	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 242	QRD161J-473	C.RESISTOR	47K 5% 1/6W			R 927	QRD161J-822	C.RESISTOR	8.2K 5% 1/6W
R 243	QRD161J-393	C.RESISTOR	39K 5% 1/6W			R 928	QRD161J-822	C.RESISTOR	8.2K 5% 1/6W
R 246	QRD161J-103	C.RESISTOR	10K 5% 1/6W			R 931	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W
R 251	QRD161J-273	C.RESISTOR	27K 5% 1/6W			R 932	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W
R 252	QRD161J-183	C.RESISTOR	18K 5% 1/6W			R 933	QRD161J-272	C.RESISTOR	1.0K 5% 1/6W
R 253	QRD161J-104	C.RESISTOR	100K 5% 1/6W			R 934	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 255	QRD161J-273	C.RESISTOR	27K 5% 1/6W			R 941	QRD161J-471	C.RESISTOR	47K 5% 1/6W
R 257	QRD167J-682	C.RESISTOR	6.8K 5% 1/6W			R 942	QRD161J-223	C.RESISTOR	22K 5% 1/6W
R 258	QRD161J-273	C.RESISTOR	27K 5% 1/6W			R 943	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 261	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W			R 944	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 281	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W			R 991	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W
R 283	QRD161J-122	C.RESISTOR	1.2K 5% 1/6W			RA103	QRD161J-560	C.RESISTOR	56 5% 1/6W
R 284	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W			RA104	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W
R 285	QRD161J-331Y	C.RESISTOR	330 5% 1/6W			RA105	QRD161J-153	C.RESISTOR	15K 5% 1/6W
R 286	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W			RA106	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W
R 287	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W			RA107	QRD161J-153	C.RESISTOR	15K 5% 1/6W
R 288	QRD161J-475	C.RESISTOR	4.7M 5% 1/6W			RA108	QRD161J-560	C.RESISTOR	18K 5% 1/6W
R 321	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W			RA111	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W
R 322	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W			RA121	QRD161J-273	C.RESISTOR	27K 5% 1/6W
R 323	QRD161J-2R2	C.RESISTOR	2.2K 5% 1/6W			RA122	QRD161J-823	C.RESISTOR	82K 5% 1/6W
R 324	QRD161J-104	C.RESISTOR	100K 5% 1/6W			RA123	QRD161J-681	C.RESISTOR	680 5% 1/6W
R 341	QRD161J-103	C.RESISTOR	10K 5% 1/6W			RA124	QRD161J-821	C.RESISTOR	820 5% 1/6W
R 342	QRD161J-103	C.RESISTOR	10K 5% 1/6W			RA125	QRD161J-560	C.RESISTOR	56 5% 1/6W
R 343	QRD161J-221	C.RESISTOR	220 5% 1/6W			RA126	QRD161J-561	C.RESISTOR	560 5% 1/6W
R 366	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W			RA127	QRD161J-820	C.RESISTOR	82 5% 1/6W
R 367	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W			RA128	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W
R 368	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W			RA129	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 369	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W			RA130	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W
R 370	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W			RA131	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W
R 371	QRD161J-680	C.RESISTOR	68 5% 1/6W			RA132	QRD161J-333	C.RESISTOR	33K 5% 1/6W
R 372	QRD167J-332	C.RESISTOR	160K 5% 1/6W			RA133	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 383	QRD167J-682Y	C.RESISTOR	6.8K 5% 1/6W			RA141	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W
R 384	QRD161J-473	C.RESISTOR	4.7M 5% 1/6W			RA203	QRD161J-560	C.RESISTOR	56 5% 1/6W
R 385	QRD161J-183	C.RESISTOR	18K 5% 1/6W			RA204	QRD161J-123Y	C.RESISTOR	12K 5% 1/6W
R 386	QRD161J-333	C.RESISTOR	33K 5% 1/6W			RA205	QRD161J-153	C.RESISTOR	5.6K 5% 1/6W
R 387	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W			RA206	QRD161J-562	C.RESISTOR	5.6K 5% 1/6W
R 388	QRD161J-182	C.RESISTOR	1.8K 5% 1/6W			RA207	QRD161J-153	C.RESISTOR	15K 5% 1/6W
R 389	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W			RA208	QRD161J-183	C.RESISTOR	18K 5% 1/6W
R 901	QRD161J-471	C.RESISTOR	470 5% 1/6W			RA211	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W
R 902	QRD161J-564	C.RESISTOR	560K 5% 1/6W			RA221	QRD161J-273	C.RESISTOR	27K 5% 1/6W
R 903	QRD161J-471	C.RESISTOR	47K 5% 1/6W			RA222	QRD161J-823	C.RESISTOR	82K 5% 1/6W
R 904	QRD161J-473	C.RESISTOR	10K 5% 1/6W			RA223	QRD161J-681	C.RESISTOR	680 5% 1/6W
R 905	QRD161J-103	C.RESISTOR	22K 5% 1/6W			RA225	QRD161J-560	C.RESISTOR	56 5% 1/6W
R 906	QRD161J-223	C.RESISTOR	100 5% 1/6W			RA226	QRD161J-561	C.RESISTOR	560 5% 1/6W
R 907	QRD161J-104	C.RESISTOR	1.0K 5% 1/6W			RA227	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W
R 908	QRD161J-102	C.RESISTOR	2.2K 5% 1/6W			RA229	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 909	QRD161J-222	C.RESISTOR	100K 5% 1/6W			RA230	QRD161J-472Y	C.RESISTOR	4.7K 5% 1/6W
R 910	QRD161J-104	C.RESISTOR	1.8K 5% 1/6W			RA231	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W
R 911	QRD161J-182	C.RESISTOR	3.3K 5% 1/6W			RA232	QRD161J-333	C.RESISTOR	33K 5% 1/6W
R 912	QRD167J-332	C.RESISTOR	270 5% 1/6W			RA233	QRD161J-103	C.RESISTOR	10K 5% 1/6W
R 921	QRD161J-271	C.RESISTOR	470 5% 1/6W			RA241	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W
R 923	QRD161J-471	C.RESISTOR	220K 5% 1/6W						
R 924	QRD161J-224	C.RESISTOR							

## CD amplifier P.C. board

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
RA301	GRD161J-331Y	C-RESISTOR	330 5% 1/6W	
RA302	GRD161J-104	C-RESISTOR	100K 5% 1/6W	
RA303	GRD161J-333	C-RESISTOR	33K 5% 1/6W	
RA305	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RA306	GRD161J-104	C-RESISTOR	100K 5% 1/6W	
RA307	GRD161J-333	C-RESISTOR	33K 5% 1/6W	
RA315	GRD161J-221	C-RESISTOR	220 5% 1/6W	
RA316	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RA317	GRD161J-121	C-RESISTOR	2.7K 5% 1/6W	
RA321	GRD161J-475	C-RESISTOR	120 5% 1/6W	
RA322	GRD161J-47	C-RESISTOR	4.7M 5% 1/6W	
RA323	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RA327	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W	
RA341	GRD14C-470SX	C-RESISTOR	47 5% 1/4W	
RA342	GRD161J-101	C-RESISTOR	100 5% 1/6W	
RA343	GRD161J-389Y	C-RESISTOR	3.9 5% 1/6W	
RA344	GRD161J-153	C-RESISTOR	15K 5% 1/6W	
RA345	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RA347	GRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
RA348	GRD161J-332	C-RESISTOR	3.3K 5% 1/6W	
RA350	GRD161J-182	C-RESISTOR	1.8K 5% 1/6W	
RA351	GRD161J-103	C-RESISTOR	10K 5% 1/6W	
RA352	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RA353	GRD161J-394	C-RESISTOR	390K 5% 1/6W	
RA354	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RA361	GRD161J-273	C-RESISTOR	2.7K 5% 1/6W	
RA363	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RE 1	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RE 2	GRD167J-332	C-RESISTOR	3.3K 5% 1/6W	
RE 3	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
RT 01	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W	
RT 02	GRD161J-103	C-RESISTOR	10K 5% 1/6W	
RT 03	GRD161J-223	C-RESISTOR	22K 5% 1/6W	
RT 04	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W	
RT 05	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W	
RT 06	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W	
RT 07	GRD161J-103	C-RESISTOR	1.0K 5% 1/6W	
RT 08	GRD161J-223	C-RESISTOR	22K 5% 1/6W	
RT 09	GRD161J-104	C-RESISTOR	100K 5% 1/6W	
RZ101	GRD161J-333	C-RESISTOR	33K 5% 1/6W	
RZ103	GRD161J-104	C-RESISTOR	100K 5% 1/6W	
RZ201	GRD161J-333	C-RESISTOR	33K 5% 1/6W	
T 001	GRD161J-104	C-RESISTOR	100K 5% 1/6W FM IF	
T 002	QVT7A21-107	I.F.T.	1FT	
TC 02	QAT3722-3002M	T-CAPACITOR	MW RF	
TC 03	QAT3722-3002M	T-CAPACITOR	LW RF	
TP 01	VM20015-002	POST PIN	TO ROD ANT	
VRA41	QV23523-203A2	V-RESISTOR 1M		
VRA61	QV23523-102A2	V-RESISTOR		
X 001	V472124-A0	CRYSTAL		

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 501	QCBBIHK-821Y	C.CAPACITOR	820PF 10% 50V	
C 503	QCVB1CM-103Y	C.CAPACITOR	-010MF 20% 16V	
C 504	GETCB1CM-106Z	E.CAPACITOR	10MF 20% 16V	
C 511	QCSBIHK-3R3V	C.CAPACITOR	3.9PF 10% 50V	
C 512	QCSBIHK-270Y	C.CAPACITOR	27PF 5% 50V	
C 513	QFLC1HJ-104ZM	M.CAPACITOR	-10MF 5% 50V	
C 514	QFN31HJ-103Z	C.CAPACITOR	-010MF 5% 50V	
C 521	QCBBIHK-331Y	C.CAPACITOR	330PF 10% 50V	
C 522	QFLC1HJ-4732M	TF.CAPACITOR	-0.7MF 5% 50V	
C 523	QFV71HJ-154Z	TF.CAPACITOR	-15MF 5% 50V	
C 524	QEN61ER-4562N	E.CAPACITOR	4.7MF +30/-10%	
C 529	GETC1AM-3362M	E.CAPACITOR	33MF 20% 10V	
C 531	QVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
C 541	QCBBIHM-103Z	M.CAPACITOR	100PF 10% 50V	
C 542	QFN31HJ-103Z	M.CAPACITOR	-010MF 5% 50V	
C 543	QFN31HJ-393Z	M.CAPACITOR	-0.9MF 5% 50V	
C 545	QEN61IN-105Z	E.CAPACITOR	1.0MF 20% 50V	
C 546	QLC1HJ-232M	M.CAPACITOR	-0.2MF 5% 50V	
C 561	GETC1AM-476Z	E.CAPACITOR	4.7MF 20% 10V	
C 562	GETC1HM-475Z	E.CAPACITOR	4.7MF 20% 50V	
C 581	GETC1AM-277Z	E.CAPACITOR	470MF 20% 10V	
C 582	GETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 591	VCP0012-105Z	C.CAPACITOR		
C 592	VCP0012-105Z	C.CAPACITOR		
C 593	QCC11EM-104V	C.CAPACITOR		
C 599	GETC1AM-107Z	E.CAPACITOR	-10MF 20% 25V	
C 601	QCS11HJ-100	C.CAPACITOR	100MF 20% 10V	
C 602	QCS11HJ-100	C.CAPACITOR	FOR CRYSTAL	
C 603	QCC11EM-473V	C.CAPACITOR	FOR CRYSTAL	
C 604	GCC11EM-104V	C.CAPACITOR	-0.47MF 20% 25V	
C 605	QCVB1CM-103Y	C.CAPACITOR	-10MF 20% 25V	
C 606	QCS11HJ-473V	C.CAPACITOR	-0.01MF 20% 16V	
C 611	QCS11HJ-101	C.CAPACITOR	-0.4MF 20% 25V	
C 612	QFN31HJ-103Z	M.CAPACITOR	100PF 5% 50V	
C 613	QFN31HJ-103Z	M.CAPACITOR	-0.10MF 5% 50V	
C 614	QFN31HJ-332Z	M.CAPACITOR	3300PF 5% 50V	
C 615	QFN31HJ-332Z	M.CAPACITOR	3300PF 5% 50V	
C 631	GETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 632	GETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 635	QCBBIHK-471Y	C.CAPACITOR	470PF 10% 50V	
C 651	GETC1AM-107Z	E.CAPACITOR	100MF 20% 10V	
C 652	GETC1CM-2262N	E.CAPACITOR	22MF 20% 16V	
C 661	QCBBIHK-271Y	C.CAPACITOR	270PF 10% 50V	
C 662	QCBBIHK-271Y	C.CAPACITOR	270PF 10% 50V	
C 663	QCBBIHK-121Y	C.CAPACITOR	120PF 10% 50V	
C 669	GETC1EM-3525M	E.CAPACITOR	3.3MF 20% 50V	
C 671	QCBBIHK-271Y	C.CAPACITOR	270PF 10% 50V	
C 672	QCBBIHK-271Y	C.CAPACITOR	270PF 10% 50V	
C 673	QCBBIHK-121Y	C.CAPACITOR	120PF 10% 50V	
C 679	GETC1EM-3525M	E.CAPACITOR	3.3MF 20% 25V	
CN501	VWCO272-015	CONNECTOR	TO PICK UP	
CN601	VWCO163-011	CONNECTOR	TO CPU	
D 691	MA700A	DIODE 1M	SERVO LSI	
IC501	TA8191F	I.C.	POWER DRIVER	
IC502	BA6298FP	I.C.		

BLOCK NO. 02111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
IC601	TC9236AF	I.C.	1 CHIP PROCESSOR		R 615	QRD161J-225	C-RESISTOR	2.2M 5% 1/6W	
IC603	T92278FS	I.C.	D/A CONVERTER		R 616	QRD161J-333	C-RESISTOR	33K 5% 1/6W	
IC604	BA15218N	I.C.	L.P.F.		R 631	QRD161J-820	C-RESISTOR	82 5% 1/6W	
K 693	VQ0048-009	INDUCTOR 1/M			R 632	QRD161J-820	C-RESISTOR	82 5% 1/6W	
L 691	VQP0018-100	INDUCTOR			R 635	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W	
L 692	VQP0028-100Z	INDUCTOR 1/M			R 638	QRD161J-331Y	C-RESISTOR	330 5% 1/6W	
L 693	VQP0028-100Z	TRANSISTOR 1/M			R 639	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W	
Q 501	2SA955 (L-K)	TRANSISTOR 1/M			R 641	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
Q 581	2SA952 (L-K)	TRANSISTOR 1/M			R 651	QRD161J-820	C-RESISTOR	82 5% 1/6W	
Q 591	2SA952 (L-K)	TRANSISTOR 1/M			R 652	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
R 501	QRD161J-124	C-RESISTOR	120K 5% 1/6W		R 653	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
R 502	QRD161J-103	C-RESISTOR	10K 5% 1/6W		R 661	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 504	QRD161J-202	C-RESISTOR	2.0K 5% 1/6W		R 662	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 505	QRD161J-100	C-RESISTOR	10 5% 1/6W		R 663	QRD161J-333	C-RESISTOR	33K 5% 1/6W	
R 506	QRD161J-101	C-RESISTOR	100 5% 1/6W		R 664	QRD161J-333	C-RESISTOR	33K 5% 1/6W	
R 511	QRD161J-183	C-RESISTOR	18K 5% 1/6W		R 665	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 512	QRD161J-392	C-RESISTOR	3.9K 5% 1/6W		R 666	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 513	QRD167J-332	C-RESISTOR	3-3K 5% 1/6W		R 669	QRD167J-332	C-RESISTOR	3-3K 5% 1/6W	
R 514	QRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W		R 671	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 515	QRD161J-103	C-RESISTOR	10K 5% 1/6W		R 672	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 516	QRD161J-103	C-RESISTOR	10K 5% 1/6W		R 673	QRD161J-333	C-RESISTOR	33K 5% 1/6W	
R 517	QRD161J-202	C-RESISTOR	2.0K 5% 1/6W		R 674	QRD161J-333	C-RESISTOR	33K 5% 1/6W	
R 521	QRD161J-154	C-RESISTOR	150K 5% 1/6W		R 675	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 522	QRD161J-472	C-RESISTOR	3.9K 5% 1/6W		R 676	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 523	QRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W		R 679	QRD167J-332	C-RESISTOR	3-3K 5% 1/6W	
R 524	QRD161J-331Y	C-RESISTOR	330 5% 1/6W		VR501	QV23523-154A2	V RESISTOR		
R 525	QRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W		X 601	VCX5016-934V	CRYSTAL	16.9344MHZ	
R 529	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W						
R 531	QRD161J-473	C-RESISTOR	47K 5% 1/6W						
R 532	QRD161J-106	C-RESISTOR	100K 5% 1/6W						
R 533	QRD161J-153	C-RESISTOR	15K 5% 1/6W						
R 541	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W						
R 542	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W						
R 543	QRD161J-473	C-RESISTOR	47K 5% 1/6W						
R 544	QRD161J-223	C-RESISTOR	22K 5% 1/6W						
R 545	QRD161J-103	C-RESISTOR	10K 5% 1/6W						
R 548	QRD161J-153	C-RESISTOR	15K 5% 1/6W						
R 549	QRD161J-821	C-RESISTOR	820 5% 1/6W						
R 550	QRD161J-104	C-RESISTOR	100K 5% 1/6W						
R 551	QRD161J-223	C-RESISTOR	22K 5% 1/6W						
R 552	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W						
R 553	QRD161J-821	C-RESISTOR	820 5% 1/6W						
R 555	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W						
R 559	QRD161J-125	C-RESISTOR	1.2M 5% 1/6W						
R 561	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W						
R 562	QRD167J-102	C-RESISTOR	1.0K 5% 1/6W						
R 563	QRD161J-152	C-RESISTOR	1.5K 5% 1/6W						
R 564	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W						
R 565	QRD161J-683Y	C-RESISTOR	68K 5% 1/6W						
R 566	QRD161J-273	C-RESISTOR	27K 5% 1/6W						
R 583	QRD161J-101	C-RESISTOR	100 5% 1/6W						
R 611	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W						
R 612	QRD161J-103	C-RESISTOR	10K 5% 1/6W						
R 613	QRD161J-224	C-RESISTOR	220K 5% 1/6W						
R 614	QRD161J-473	C-RESISTOR	47K 5% 1/6W						

BLOCK NO. 02111111

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
IC601	TC9236AF	I.C.	1 CHIP PROCESSOR	
IC603	T92278FS	I.C.	D/A CONVERTER	
IC604	BA15218N	I.C.	L.P.F.	
K 693	VQ0048-009	INDUCTOR 1/M		
L 691	VQP0018-100	INDUCTOR		
L 692	VQP0028-100Z	INDUCTOR 1/M		
L 693	VQP0028-100Z	TRANSISTOR 1/M		
Q 501	2SA955 (L-K)	TRANSISTOR 1/M		
Q 581	2SA952 (L-K)	TRANSISTOR 1/M		
Q 591	2SA952 (L-K)	TRANSISTOR 1/M		
R 501	QRD161J-124	C-RESISTOR	120K 5% 1/6W	
R 502	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
R 504	QRD161J-202	C-RESISTOR	2.0K 5% 1/6W	
R 505	QRD161J-100	C-RESISTOR	10 5% 1/6W	
R 506	QRD161J-101	C-RESISTOR	100 5% 1/6W	
R 511	QRD161J-183	C-RESISTOR	18K 5% 1/6W	
R 512	QRD161J-392	C-RESISTOR	3.9K 5% 1/6W	
R 513	QRD167J-332	C-RESISTOR	3-3K 5% 1/6W	
R 514	QRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W	
R 515	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
R 516	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
R 517	QRD161J-202	C-RESISTOR	2.0K 5% 1/6W	
R 521	QRD161J-154	C-RESISTOR	150K 5% 1/6W	
R 522	QRD161J-472	C-RESISTOR	3.9K 5% 1/6W	
R 523	QRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W	
R 524	QRD161J-331Y	C-RESISTOR	330 5% 1/6W	
R 525	QRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W	
R 529	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W	
R 531	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
R 532	QRD161J-106	C-RESISTOR	100K 5% 1/6W	
R 533	QRD161J-153	C-RESISTOR	15K 5% 1/6W	
R 541	QRD161J-123Y	C-RESISTOR	12K 5% 1/6W	
R 542	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W	
R 543	QRD161J-473	C-RESISTOR	47K 5% 1/6W	
R 544	QRD161J-223	C-RESISTOR	22K 5% 1/6W	
R 545	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
R 548	QRD161J-153	C-RESISTOR	15K 5% 1/6W	
R 549	QRD161J-821	C-RESISTOR	820 5% 1/6W	
R 550	QRD161J-104	C-RESISTOR	100K 5% 1/6W	
R 551	QRD161J-223	C-RESISTOR	22K 5% 1/6W	
R 552	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W	
R 553	QRD161J-821	C-RESISTOR	820 5% 1/6W	
R 555	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W	
R 559	QRD161J-125	C-RESISTOR	1.2M 5% 1/6W	
R 561	QRD167J-562	C-RESISTOR	5.6K 5% 1/6W	
R 562	QRD167J-102	C-RESISTOR	1.0K 5% 1/6W	
R 563	QRD161J-152	C-RESISTOR	1.5K 5% 1/6W	
R 564	QRD167J-332	C-RESISTOR	3.3K 5% 1/6W	
R 565	QRD161J-683Y	C-RESISTOR	68K 5% 1/6W	
R 566	QRD161J-273	C-RESISTOR	27K 5% 1/6W	
R 583	QRD161J-101	C-RESISTOR	100 5% 1/6W	
R 611	QRD161J-102	C-RESISTOR	1.0K 5% 1/6W	
R 612	QRD161J-103	C-RESISTOR	10K 5% 1/6W	
R 613	QRD161J-224	C-RESISTOR	220K 5% 1/6W	
R 614	QRD161J-473	C-RESISTOR	47K 5% 1/6W	

## ■ System micon. control P.C. board

BLOCK NO. 05111111

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C	701	QCVB1CM-103Y	C-CAPACITOR	-010MF 20% 16V	
C	702	QEKB1HM-105Z	E-CAPACITOR	1.0MF 20% 50V	
C	703	QEKB1HM-105Z	E-CAPACITOR	1.0MF 20% 50V	
C	704	QEKB1HM-105Z	E-CAPACITOR	1.0MF 20% 50V	
C	705	QEKB1HM-105Z	E-CAPACITOR	1.0MF 20% 50V	
C	802	QCVB1CM-103Y	C-CAPACITOR	-010MF 20% 16V	
C	803	QCT30CH-150Y	C-CAPACITOR	15PF 5% 50V	
C	804	QCT30CH-150Y	C-CAPACITOR	15PF 5% 50V	
C	807	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
C	808	QCT30CH-150Y	C-CAPACITOR	15PF 5% 50V	
C	809	QCT30CH-150Y	C-CAPACITOR	15PF 5% 50V	
C	811	QEKB1AM-102Z	E-CAPACITOR	100MF 20% 10V	
C	812	QEKB1CM-103Y	C-CAPACITOR	-010MF 20% 16V	
C	813	QCVB1CM-103Y	C-CAPACITOR	-010MF 20% 16V	
C	814	QEKB1CM-476	E-CAPACITOR	4.7MF 20% 16V	
C	815	QEKB1HM-105Z	E-CAPACITOR	1.0MF 20% 50V	
C	816	QCVB1CM-103Y	C-CAPACITOR	-010MF 20% 16V	
CA801		VCR024-001	C NETWORK		
CM	01	QEKB1AM-102Z	E-CAPACITOR	100MF 20% 10V	
CM	02	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	03	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	04	QCBB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
CM	05	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	07	QCVB3CM-103Y	C-CAPACITOR	-010MF 20% 16V	
CM	08	QCVB1CM-103Y	C-CAPACITOR	-010MF 20% 16V	
CM	09	QCVB1CM-103Y	E-CAPACITOR	4.7MF 20% 16V	
CM	10	QEKB1EM-475Z	E-CAPACITOR	4.7MF 20% 25V	
CM	11	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	12	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	15	QCT30CH-150Y	C-CAPACITOR	15PF 5% 50V	
CM	16	QCT30CH-150Y	C-CAPACITOR	15PF 5% 50V	
CM	17	QCT2CH-510Z	C-CAPACITOR	51PF 5% 50V	
CM	18	QCT5CH-510Z	C-CAPACITOR	51PF 5% 50V	
CM	19	QCBB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
CM	20	QCBB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
CM	21	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	22	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	23	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	31	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	32	QCBB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
CM	87	QEKB1CM-226ZM	E-CAPACITOR	22MF 20% 16V	
CN	99	QET1AM-477Z	E-CAPACITOR	470MF 20% 10V	
CN801		VMCO192-P09	CONNECTOR	MAIN	
CN802		VMCO192-P09	CONNECTOR	MAIN	
CN803		VMCO192-P09	CONNECTOR	MAIN	
CN804		VMCO192-P09	CONNECTOR	MAIN	
CN805		VMCO163-R11	CONNECTOR	CD	
D	801	MA719	DIODE	1/M	
D	802	ISS133	DIODE	1/M	
D	803	ISS133	DIODE	1/M	
D	804	ISS133	DIODE	1/M	
D	805	ISS133	DIODE	1/M	
D	806	ISS133	DIODE	1/M	
D	807	MT23.6JB	ZE DIODE	1/M	
D	808	ISS133	DIODE	1/M	

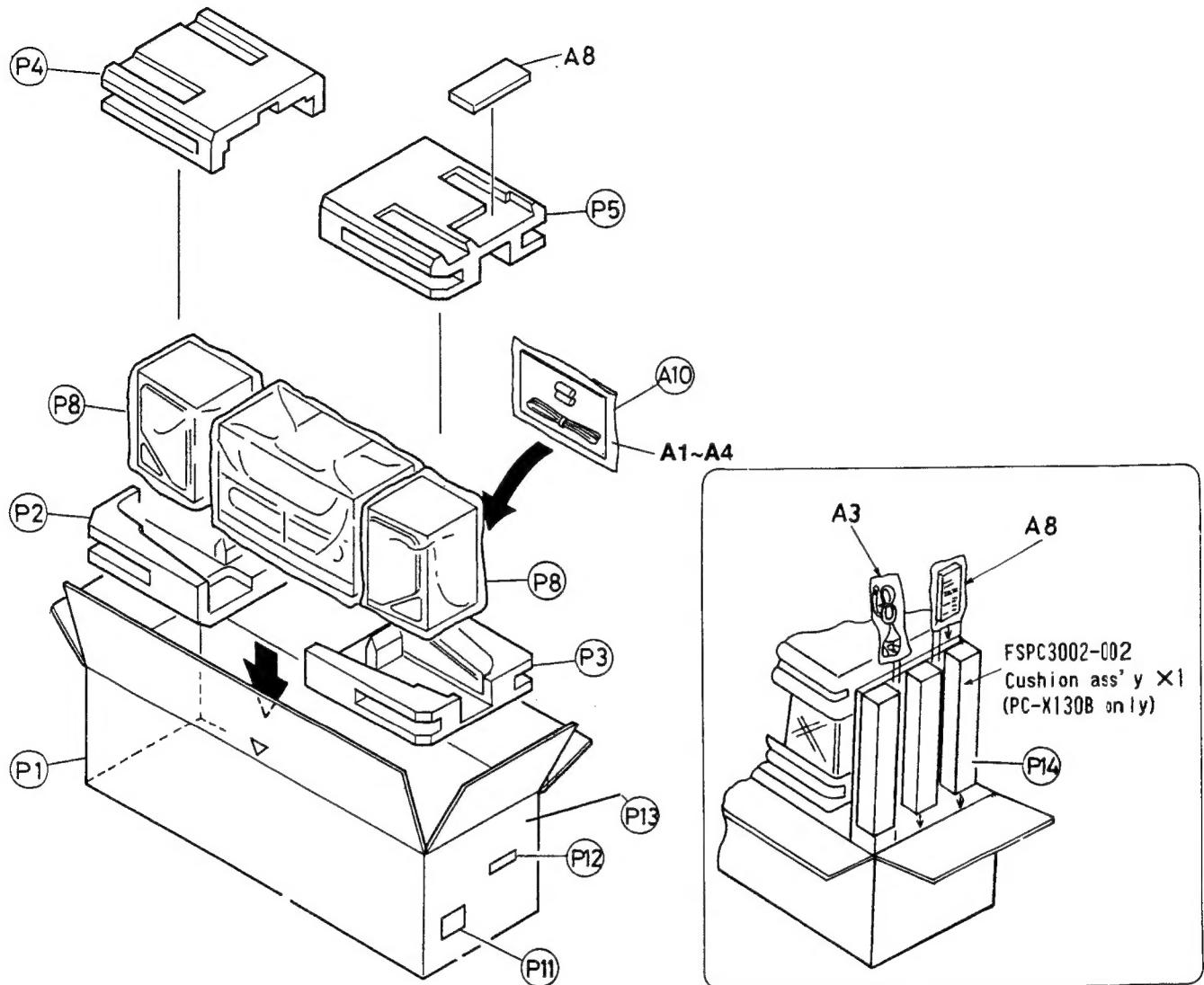
A	REF.	PARTS NO.	PARTS NAME	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D	811	SLR-34MGT42	LED	D 812	SLR-34VC3F	POWER/GREEN STANDBY(RED) AHB LED	
D	813	SLR-305VA47	LED	D 814	SLR-305VC47	LED I/M	
D	815	SLR-305VC47	LED	D 01	ISS133	LED I/M	
D	02	ISS133	DIODE	D 03	ISS133	DIODE I/M	
D	04	ISS133	DIODE	D 05	ISS133	DIODE I/M	
D	06	ISS133	DIODE	D 07	ISS133	DIODE I/M	
D	08	MT2.6.2B	Z DIODE	D 86	MT2.6.2B	IC	
IC801		MN1871610JCX2	IC	IC802	PS1529C	U-COM B-UP RESET	
IC803		PS1529H-T	IC	IC804	SPS-420-1	RM SENSOR	
L	801	VQP0028-100Z	INDUCTOR	L 802	VQP0018-4R7	INDUCTOR	I/M
L	803	VQP0048-009	INDUCTOR	L 804	VQP0018-4R7	INDUCTOR	I/M
LCD	801	FSG11002-001	LCD	LM 01	VQP0018-4R7	INDUCTOR	I/M
LM	02	VQP0018-4R7	INDUCTOR	LM 04	VQP0018-4R7	INDUCTOR	I/M
PL801		FSG10001-001	LAMP	PL802	FSG20001-001	LAMP	
Q	801	2SC945L(P/Q)	TRANSISTOR	Q 802	2SC945L(P/Q)	TRANSISTOR	I/M
Q	803	2SA932(L,K)	TRANSISTOR	Q 804	2SA932(L,K)	TRANSISTOR	I/M
Q	805	DTC14YS	TRANSISTOR	Q 806	DTC14YS	TRANSISTOR	I/M
Q	807	DTC14YS	TRANSISTOR	Q 808	DTC14YS	TRANSISTOR	I/M
QW	86	DTC12YS	TRANSISTOR	R 701	GRD167J-562	C.RESISTOR	S-6K 5% 1/6W
R	702	GRD167J-562	C.RESISTOR	R 714	GRD167J-562	C.RESISTOR	S-6K 5% 1/6W
R	703	GRD167J-562	C.RESISTOR	R 704	GRD167J-562	C.RESISTOR	S-6K 5% 1/6W
R	705	GRD167J-562	C.RESISTOR	R 711	GRD167J-103	C.RESISTOR	S-6K 5% 1/6W
R	713	GRD167J-473	C.RESISTOR	R 723	GRD167J-152	C.RESISTOR	1.5K 5% 1/6W
R	714	GRD167J-104	C.RESISTOR	R 724	GRD167J-224	C.RESISTOR	220K 5% 1/6W
R	716	GRD167J-104	C.RESISTOR	R 801	GRD167J-104	C.RESISTOR	100K 5% 1/6W
R	717	GRD167J-104	C.RESISTOR	R 802	GRD167J-332	C.RESISTOR	100K 5% 1/6W
R	718	GRD167J-104	C.RESISTOR	R 803	GRD167J-104	C.RESISTOR	100K 5% 1/6W
R	722	GRD167J-152	C.RESISTOR	R 804	GRD167J-223	C.RESISTOR	22K 5% 1/6W
R	724	GRD167J-104	C.RESISTOR	R 805	GRD167J-681	C.RESISTOR	680 5% 1/6W

BLOCK NO. 03111111

A	REF.	PARTS NO.	PARTS NAME	SUFFIX	REMARKS	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R	807	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R 865	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	808	GRD161J-271	C-RESISTOR	270 5% 1/6W		R 866	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	809	GRD161J-683Y	C-RESISTOR	68K 5% 1/6W		R 867	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	811	GRD161J-683Y	C-RESISTOR	68K 5% 1/6W		R 868	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	812	GRD161J-221	C-RESISTOR	220 5% 1/6W		R 869	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	813	GRD161J-221	C-RESISTOR	220 5% 1/6W		R 870	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	814	GRD161J-221	C-RESISTOR	220 5% 1/6W		R 871	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	815	GRD161J-682	C-RESISTOR	6.8K 5% 1/6W		R 872	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	816	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R 873	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	817	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R 874	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	818	GRD161J-153	C-RESISTOR	15K 5% 1/6W		R 875	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	819	GRD161J-683Y	C-RESISTOR	68K 5% 1/6W		R 876	GRD167J-332	C-RESISTOR	3.3K 5% 1/6W
R	820	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R 877	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	821	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R 878	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	822	GRD161J-153	C-RESISTOR	15K 5% 1/6W		R 879	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	823	GRD161J-683Y	C-RESISTOR	68K 5% 1/6W		R 880	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	824	GRD167J-682	C-RESISTOR	6.8K 5% 1/6W		R 881	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	825	GRD167J-562	C-RESISTOR	5.6K 5% 1/6W		R 882	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	826	GRD161J-822	C-RESISTOR	8.2K 5% 1/6W		R 883	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	827	GRD161J-153	C-RESISTOR	15K 5% 1/6W		R 884	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	828	GRD161J-223	C-RESISTOR	22K 5% 1/6W		R 885	GRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W
R	829	GRD161J-823	C-RESISTOR	82K 5% 1/6W		R 886	GRD161J-472Y	C-RESISTOR	4.7K 5% 1/6W
R	831	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R 887	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	832	GRD161J-223	C-RESISTOR	22K 5% 1/6W		R 888	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	833	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R 889	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	834	GRD161J-223	C-RESISTOR	22K 5% 1/6W		R 890	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	835	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R 891	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	836	GRD161J-223	C-RESISTOR	22K 5% 1/6W		R 892	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	837	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R 893	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	838	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R 894	GRD161J-104	C-RESISTOR	BAND1(H)
R	839	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R 895	GRD161J-104	C-RESISTOR	BAND2(H)
R	840	GRD161J-104	C-RESISTOR	100K 5% 1/6W		R 896	GRD161J-104	C-RESISTOR	1.0K 5% 1/6W
R	841	GRD161J-104	C-RESISTOR	100K 5% 1/6W		R 897	GRD161J-104	C-RESISTOR	1.0K 5% 1/6W
R	842	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R 898	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W
R	843	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R M 01	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	844	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R M 02	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W
R	845	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R M 03	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	846	GRD161J-104	C-RESISTOR	10K 5% 1/6W		R M 04	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	847	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R M 05	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	848	GRD161J-103	C-RESISTOR	10K 5% 1/6W		R M 06	GRD161J-103	C-RESISTOR	10K 5% 1/6W
R	849	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R M 07	GRD161J-101	C-RESISTOR	100 5% 1/6W
R	850	GRD161J-104	C-RESISTOR	100K 5% 1/6W		R M 08	GRD161J-103	C-RESISTOR	470K 5% 1/6W
R	851	GRD161J-104	C-RESISTOR	10K 5% 1/6W		R M 09	GRD161J-774	C-RESISTOR	470K 5% 1/6W
R	852	GRD161J-104	C-RESISTOR	10K 5% 1/6W		R M 10	GRD161J-222	C-RESISTOR	2.7K 5% 1/6W
R	853	GRD161J-104	C-RESISTOR	100K 5% 1/6W		R M 11	GRD161J-101	C-RESISTOR	100 5% 1/6W
R	854	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R M 12	GRD161J-224	C-RESISTOR	220K 5% 1/6W
R	855	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R M 13	GRD161J-104	C-RESISTOR	100K 5% 1/6W
R	856	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R M 14	GRD161J-104	C-RESISTOR	100K 5% 1/6W
R	858	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		R M 15	GRD161J-104	C-RESISTOR	100K 5% 1/6W
R	859	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W		S 801	QSG4H11-V022	TACT SWITCH	POWER
R	860	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		S 802	QSG4H11-V022	TACT SWITCH	FB
R	861	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		S 803	QSG4H11-V022	TACT SWITCH	FF
R	862	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		S 804	QSG4H11-V022	TACT SWITCH	STOP/CLEAR
R	863	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		S 805	QSG4H11-V022	TACT SWITCH	PLAY/PAUSE
R	864	GRD161J-222	C-RESISTOR	2.2K 5% 1/6W		S 806	QSG4H11-V022	TACT SWITCH	DOWN

BLOCK NO. 03

### 13. Illustration of Packing and Parts List



#### ■ Packing parts list

BLOCK NO. M5MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CIR
	P 1	FSPC7001-001	CARTON		1		
	P 2	FSPH1001-001	CUSHION(BOTT,L)		1		
	P 3	FSPH1001-002	CUSHION(BOTT,R)		1		
	P 4	FSPH1002-001	CUSHION(UP,L)		1		
	P 5	FSPH1002-002	CUSHION(UP,R)		1		
	P 7	E300196-031B	ENVELOPE		1		
	P 8	VPE3020-018	POLY BAG		2		
	P 10	VPE3020-007	POLY BAG	400X450 INSTRUCTIONS	1		
	P 11	VND3044-004	NUMBER LABEL		1	B	
		VND3044-003	NUMBER LABEL		1	E	
		VND3044-005	NUMBER LABEL		1	G	
		VND3044-001	NUMBER LABEL		1	GI, EN	
	P 12	FSND3002-001	BAR CODE LABEL		1	E, B, G, GI, EN	
	P 13	QZLA001-012	MARK		1	E, G	
	P 14	FSPC3002-002	CUSHION ASS'Y	GREEN POINT P.CORD, REMOCON	1	B	

## 14. Accessories

BLOCK NO. M6MM      

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A 1	VNN7001-261S VNN7001-251S VNN7001-271S	INSTRUCTIONS INSTRUCTIONS INSTRUCTIONS		1 1 1	E,G,EN B,GI,EN EN	
A 2	BT20060 BT-20066A	WARRANTY CARD WARRANTY CARD		1 1	B B,G	
A 3	BT-20135 E43486-340B QMP39F0-183E	WARRANTY CARD SAFETY SHEET		1	G	
A 4	QMP5520-183EBS PECA0786	POWER CORD POWER CORD BATTERY	8NOJI	1 1 2	E,G,GI B	
A 8	FSGR0001-001	REMOCON		1		



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